



# 1999 Toxics Release Inventory

Public Data Release

## State Fact Sheets



# Public Access to the Toxics Release Inventory (TRI)

## TRI Data Products

Data Product	Point of Access	Contact Information
1999 TRI Executive Summary (reference EPA 260-S-01-001)	U.S. EPA's National Service Center for Environmental Publications (NSCEP)	(800) 490-9198 (513) 489-8190 FAX: (513) 489-8695 order online: <a href="http://www.epa.gov/ncepihom">http://www.epa.gov/ncepihom</a>
1999 TRI Public Data Release Report (reference EPA 260-R-01-001)		
1999 State Fact Sheets Report (reference EPA 260-F-01-001)	U.S. EPA Toxics Release Inventory (TRI) Website — 1999 Data Release	<a href="http://www.epa.gov/tri/tri99">http://www.epa.gov/tri/tri99</a>
1999 State Data Files in Dbase format	U.S. EPA Toxics Release Inventory (TRI) Website	<a href="http://www.epa.gov/tri/tri99">http://www.epa.gov/tri/tri99</a>
Chemicals in Your Community (reference EPA 550-K-99-001)	NSCEP	(800) 490-9198 (513) 489-8190 FAX: (513) 489-8695 order online: <a href="http://www.epa.gov/ncepihom">http://www.epa.gov/ncepihom</a>

## TRI Online Access

Online Provider of TRI Data	Internet Access Address
TRI Explorer provides fast and easy access to the TRI data via U.S. EPA's latest TRI tool	<a href="http://www.epa.gov/triexplorer/">http://www.epa.gov/triexplorer/</a>
U.S. EPA's TRI Program Homepage and 1999 data release page	<a href="http://www.epa.gov/tri/">http://www.epa.gov/tri/</a> <a href="http://www.epa.gov/tri/tri99/">http://www.epa.gov/tri/tri99/</a>
U.S. EPA Envirofacts provides access to TRI data via U.S. EPA's Envirofacts Data Warehouse Query Engine	<a href="http://www.epa.gov/enviro/html/toxic_releases.html">http://www.epa.gov/enviro/html/toxic_releases.html</a>
Right-to-Know Network, operated by two nonprofit organizations (OMB Watch and the Center for Public Data Access), provides free access to TRI data	<a href="http://www.rtknet.org/trisearch.html">http://www.rtknet.org/trisearch.html</a>
TOXNET@the National Library of Medicine's (NLM) Toxicology Data Network, provides free access to TRI data	<a href="http://toxnet.nlm.nih.gov/">http://toxnet.nlm.nih.gov/</a>

# **1999 Toxics Release Inventory State Fact Sheets**

**U.S. Environmental Protection Agency  
Office of Environmental Information (2810)  
Washington, D.C. 20460**

# 1999 Toxics Release Inventory



## Table of Contents

<b>Introduction</b> .....	1
<b>TRI Data by State: Overview</b> .....	2
<b>Description of the Fact Sheets</b> .....	2
State Summary Data .....	2
Chemicals and Facilities with Largest Amounts .....	4
<b>Summary Tables</b>	
Table 1. TRI On-site and Off-site Releases by State, 1999, All Industries (Ordered by Total Releases) .....	5
Table 2. TRI On-site Releases by State, 1999, All Industries (Ordered by Total On-site Releases) .....	6
Table 3. TRI Releases Within the State, 1999, All Industries (Ordered by Total Releases Within the State) .....	7
Table 4. TRI Transfers for Further Waste Management and Disposal by State, 1999 (Ordered by Total Transfers) .....	8
Table 5. TRI Transfers to POTWs by State, 1999 (Ordered by Total Transfers to POTWs) .....	9
Table 6. TRI On-site and Off-site Releases by State, 1999, Original Industries (Ordered by Total Releases) .....	10
Table 7. TRI On-site Releases by State, 1999, Original Industries (Ordered by Total On-site Releases) .....	11
Table 8. TRI On-site and Off-site Releases by State, 1999, New Industries (Ordered by Total Releases) .....	12
Table 9. TRI On-site Releases by State, 1999, New Industries (Ordered by Total On-site Releases) .....	13
Table 10. TRI On-site and Off-site Releases by State, 1998, All Industries (Ordered by Total Releases) .....	14
Table 11. TRI On-site Releases by State, 1998, All Industries (Ordered by Total On-site Releases) .....	15



# 1999 Toxics Release Inventory

---

Table 12.	TRI On-site and Off-site Releases by State, 1998, Original Industries (Ordered by Total Releases) .....	16
Table 13.	TRI On-site Releases by State, 1998, Original Industries (Ordered by Total On-site Releases) .....	17
Table 14.	TRI On-site and Off-site Releases by State, 1998, New Industries (Ordered by Total Releases) .....	18
Table 15.	TRI On-site Releases by State, 1998, New Industries (Ordered by Total On-site Releases) .....	19
Table 16.	TRI On-site and Off-site Releases by State, 1997 (Ordered by Total Releases) .....	20
Table 17.	TRI On-site Releases by State, 1997 (Ordered by Total On-site Releases) .....	21
Table 18.	TRI On-site and Off-site Releases by State, 1996 (Ordered by Total Releases) .....	22
Table 19.	TRI On-site Releases by State, 1996 (Ordered by Total On-site Releases) .....	23
Table 20.	TRI On-site and Off-site Releases by State, 1995 (Ordered by Total Releases) .....	24
Table 21.	TRI On-site Releases by State, 1995 (Ordered by Total On-site Releases) .....	25
Table 22.	TRI On-site and Off-site Releases by State, 1995–1999 (Ordered by Total Releases 1999) .....	26
Table 23.	TRI Total On-site and Off-site Releases by State, 1988, 1995–1999 (Ordered by Total Releases 1999) .....	27
<b>State Fact Sheets</b> .....		<b>29</b>

# 1999 Toxics Release Inventory



## INTRODUCTION

The fact sheets in this document summarize the basic 1999 Toxics Release Inventory (TRI) data for each state. This document serves as a companion volume to EPA's *1999 Toxics Release Inventory Public Data Release* (EPA 260-R-01-001), a more detailed examination of TRI data for 1999 and previous years.

The TRI is a publicly available database containing information about releases and other waste management of toxic chemicals by reporting facilities. The TRI was established by section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986. EPCRA was passed to promote planning for chemical emergencies and to provide information to the public about the presence and release of toxic and hazardous chemicals in their communities. Following passage of the Pollution Prevention Act of 1990, the TRI was expanded to include reporting of additional waste management and pollution prevention activities.

Facilities in the manufacturing sector (Standard Industrial Classification codes 20 through 39) have been required to report to TRI since its inception. Beginning with reporting year 1994, federal facilities have also been required to report to TRI. Reporting year 1998 was the first year of reporting by seven additional industries:

- metal mining (SIC code 10, except 1011, 1081, and 1094),
- coal mining (SIC code 12, except 1241),
- electrical utilities that combust coal and/or oil (SIC codes 4911, 4931, and 4939),

- RCRA subtitle C hazardous waste treatment and disposal facilities (in SIC code 4953),
- chemical wholesalers (SIC code 5169),
- petroleum terminals and bulk stations (SIC code 5171), and
- solvent recovery services (SIC code 7389).

In the TRI public data release materials, including this volume, reporting by two of these industries—solvent recovery services and RCRA subtitle C hazardous waste treatment and disposal facilities—is analyzed together.

By July 1 each year, facilities must report their estimated amounts of releases and other waste management of toxic chemicals for the preceding calendar year. Facilities provide this information to EPA and to the state in which they are located. For 1999, 23,639 facilities filed 84,068 individual chemical reporting forms. After completion of data entry and data quality assurance activities, EPA makes these data available to the public through on-line databases and a variety of other means, including this report.

For further information about TRI and for assistance in obtaining TRI documents, contact the EPCRA Information Hotline at 1-800-424-9346. For assistance in obtaining access to the data, contact the TRI User Support Service at 202-260-1531. For further information about individual state TRI programs, contact the state TRI coordinator listed at the bottom of the fact sheet for that state.



# 1999 Toxics Release Inventory

## TRI DATA BY STATE: OVERVIEW

Tables on the following pages summarize 1999 TRI reporting by state. For 1999, individual tables rank states and summarize their data for:

- **on- and off-site releases** (includes transfers out-of-state for disposal and, for tables with all industries, excludes transfers to disposal sent to other TRI facilities that reported the amount as an on-site release),
- **on-site releases** (includes amounts released at the facility; excludes amounts transferred to other sites for disposal),
- **releases within each state** (includes off-site releases sent into the state by facilities in other locations, excludes transfers out-of-state for disposal, and excludes transfers to disposal sent to other TRI facilities that reported the amount as an on-site release),
- **transfers for further waste management**—sent to recycling, energy recovery, treatment, and Publicly Owned Treatment Works (POTWs)—or for disposal (excluding metals sent to POTWs), and
- **transfers of metals** (and their compounds) and non-metals to POTWs.

Additional tables summarize on-site and off-site releases, as well as on-site releases, separately for new and original reporting industries. Whereas the tables for all industries and the individual state fact sheet pages exclude transfers to disposal sent to other TRI facilities that reported the amount as an on-site release, the tables showing on-site and off-site releases for

original and new industries separately for 1998 and 1999 do not. These include Tables 6, 8, 12, and 14. Similar tables provide comparable data for 1998, 1997, 1996, and 1995. The final tables supply totals for on- and off-site releases for the five-year period, 1995–1999 and for 1988 and 1995–1998. This last table does not include data on chemicals whose reporting requirements have changed during the period 1988 through 1999. Therefore, it does not include delisted chemicals, chemicals added in 1990, 1991, 1994 and 1995, aluminum oxide, ammonia, hydrochloric acid and sulfuric acid.

The following section, “Description of the Fact Sheets,” explains data provided in these summary tables as well as in the individual state fact sheets.

## DESCRIPTION OF THE FACT SHEETS

Each four-page state fact sheet provides the following:

### State Summary Data (First Page for Each State)

Data are presented for the original industries (those which have been required to report to TRI since its inception and federal facilities), new industries reporting for the first time in 1998, and the total for all industries.

- **Reported Releases and Waste Management Activities:**
  - **On- and Off-site Releases:** The amounts of toxic chemicals released to air, water, and land and injected into underground wells (on-site



# 1999 Toxics Release Inventory



releases) at reporting facilities within the state and the amounts of toxic chemicals transferred off-site to disposal (off-site releases) by reporting facilities within the state. Off-site releases include transfers to disposal of all TRI chemicals plus transfers of metals and metal compounds to solidification/stabilization, to wastewater treatment (excluding POTWs), and to POTWs. Off-site transfer data exclude amounts sent for disposal to other TRI facilities that report those amounts as on-site releases.

- **Waste Management:** Quantities of TRI chemicals in Production-related Waste Managed by reporting facilities, including recycling, energy recovery, and treatment on-site and off-site, as well as the quantity released on- and off-site. Non-production-related Waste Managed includes quantities released as the result of one-time events, for example, remedial activities or catastrophic events. Non-production-related waste is overstated in this report for all years. Those forms indicating NA for non-production-related waste were assigned one pound erroneously. The total amount overstated is about 4,500 pounds for each year.
- **Transfers Off-site for Further Waste Management/Disposal:** Amounts of TRI chemicals sent off-site whether for further waste management—recycling, energy recovery, treatment, POTWs—or for disposal (off-site releases). For amounts transferred to POTWs, metals and metal compounds are identified separately from non-metals.
- **State map** with triangles and squares marking the location of each facility reporting to the TRI in 1999, specifically squares for new industries and triangles for original industries. Triangles and squares are proportionally sized to represent each facility's total on-site releases.
- **Population and area** of the state, the **number of facilities** reporting to TRI from the state, and the **number of forms** submitted by those facilities. Population statistics for the 50 states and the District of Columbia are 1999 U.S. Census estimates issued in December 1999; the 1999 U.S. Census estimates for American Samoa, Guam, the Northern Marianas, Puerto Rico, and the Virgin Islands were issued May 2000.
- The state's **national rank** (and pounds) for total on- and off-site releases (includes transfers out-of-state for disposal and excludes transfer amounts sent to other TRI facilities reporting that amount as on-site releases), for total on-site releases (includes amounts released at the facility; excludes amounts transferred to other sites), for total releases within the state (includes off-site releases sent into the state by facilities in other locations, excludes transfers out-of-state for disposal and transfers to other TRI facilities in the state reporting that amount as on-site releases), and for total production-related waste managed.
- **Contact** names, telephone numbers, and fax numbers for the state TRI coordinator and for the EPA TRI coordinator for the region in which the state is located.





# 1999 Toxics Release Inventory

Total On- and Off-site Releases is not the same as Quantity Released On- and Off-site. These *State Fact Sheets* present these amounts on the first page for each state. Facilities are also ranked separately in each state for both of these measures of releases.

The difference between these amounts arises primarily from the types of releases reported on different sections of the Form R. Total On- and Off-site Releases reflects all on-site releases collected in Section 5 of Form R plus off-site releases (transfers off-site for disposal) reported in Section 6 (including metals and metal compounds transferred to solidification/stabilization and to wastewater treatment, including POTWs). The Quantity Released On- and Off-site is reported in Section 8.1 of Form R. This quantity reflects production-related releases and excludes releases associated with catastrophic events, remedial actions, and other one-time events not related to production.

Other reasons also contribute to the different quantities reported in different sections of the Form R. For example, a release or transfer of less than 1,000 pounds may be reported in ranges in Section 5 and 6 whereas an exact amount must be included in Section 8. Furthermore, facilities may round off the quantities reported in Section 8 to two significant digits.

In 1999, some facilities reported transfers of metals and metal compounds to solidification/stabilization and to wastewater treatment (excluding POTWs) using incorrect disposal codes in Section 6 of Form R (codes M40 and M61). For the 1999 TRI Public Data Release and the *State Fact Sheets*, off-site releases include these amounts. These facilities may have reported these transfers in Section 8 as treated off-site rather than incorporating the amounts into Quantity Released On- and Off-site. Because of the differences between Section 6 and Section 8 reporting, EPA cannot correct these Section 8 quantities.

## Chemicals and Facilities with Largest Amounts (Second through Fourth Pages for Each State)

Chemicals and facilities are ranked separately for original industries (those which have been required to report to TRI since its inception and federal facilities) and for new industries reporting for the first time in 1998.

- The **10 chemicals released in the state in the largest amounts** (including transfers into the state for disposal and excluding transfers out-of-state for disposal, as well as transfers within the state to other TRI facilities reporting that amount as on-site releases). Ranking of chemicals includes on-site releases (reported in Section 5 of TRI's Form R) and off-site releases (reported in Section 6 of TRI's Form R, including transfers of metals and metal compounds to solidification/stabilization and to wastewater treatment including POTWs). Data on all transfers into, within, and out of the state are also presented.
- The **10 facilities reporting the largest amounts of total on-site releases** of TRI chemicals (reported in Section 5 of TRI's Form R). Ranking of these facilities excludes amounts transferred off-site for disposal, although information on transfers within the state and out of state (reported in Section 6 of TRI's Form R) is provided.
- The **10 facilities reporting the largest total quantities of TRI chemicals released on- and off-site** (reported in Section 8.1 of TRI's Form R). These tables supply data for all categories of production-related waste managed and for non-production-related waste managed.

# 1999 Toxics Release Inventory



**Table 1. TRI On-site and Off-site Releases by State, 1999, All Industries (Ordered by Total Releases)**

State	On-site Releases					Total On-site Releases Pounds	Off-site Releases	Total On- and Off-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds		Transfers Off-site to Disposal* Pounds	
Nevada	1,529,022	1,868,475	136,431	2,797	1,164,658,138	1,168,194,863	212,998	1,168,407,861
Utah	2,367,919	50,659,560	1,053,343	3,600	1,107,001,696	1,161,086,118	700,851	1,161,786,969
Arizona	2,056,508	3,750,741	6,850	15	956,036,806	961,850,920	1,479,148	963,330,068
Alaska	755,900	1,866,442	96,222	34,946,256	395,352,961	433,017,781	5	433,017,786
Texas	40,646,276	70,118,030	32,518,781	90,728,865	54,241,223	288,253,175	25,612,956	313,866,131
Ohio	17,137,596	131,740,782	6,976,957	27,645,086	70,385,697	253,886,118	49,342,038	303,228,156
New Mexico	765,223	1,096,279	23,236	315	258,220,861	260,105,914	2,170,263	262,276,177
Pennsylvania	10,320,983	99,089,670	49,055,456	0	13,212,611	171,678,720	63,889,870	235,568,590
Indiana	16,490,066	83,764,476	6,894,995	890,265	32,154,583	140,194,385	58,676,327	198,870,712
Illinois	12,705,085	72,426,732	6,712,012	1,200	45,742,016	137,587,045	27,467,852	165,054,897
North Carolina	7,226,691	116,503,555	9,180,497	0	18,805,589	151,716,332	6,634,199	158,350,531
Louisiana	13,399,238	54,912,706	15,116,128	46,838,209	16,602,257	146,868,538	3,284,067	150,152,605
Florida	6,716,995	90,079,086	2,485,101	32,769,162	12,533,448	144,583,792	4,822,828	149,406,620
Tennessee	13,307,188	93,952,741	2,795,230	0	27,019,381	137,074,540	7,236,487	144,311,027
Michigan	7,126,035	69,033,514	1,265,578	2,571,942	17,187,913	97,184,982	45,101,532	142,286,514
Alabama	10,609,742	71,268,825	6,737,096	109,005	40,527,170	129,251,838	8,876,681	138,128,519
Missouri	5,784,836	36,163,652	3,498,327	0	79,628,111	125,074,926	4,665,851	129,740,777
Montana	681,433	5,839,666	36,057	0	120,570,445	127,127,601	491,047	127,618,648
Georgia	7,096,949	95,413,641	7,496,132	0	13,133,711	123,140,433	3,783,848	126,924,281
Kentucky	8,574,398	66,741,346	3,014,626	0	15,537,156	93,867,526	12,337,796	106,205,322
West Virginia	4,388,691	73,112,287	7,909,902	10	11,032,956	96,443,846	4,048,265	100,492,111
Idaho	2,160,507	4,262,059	7,604,261	0	71,613,748	85,640,575	335,764	85,976,339
South Carolina	6,668,796	51,386,856	3,470,358	0	12,152,593	73,678,603	10,382,294	84,060,897
Virginia	7,902,245	52,227,023	4,769,822	0	5,261,968	70,161,058	10,408,547	80,569,605
Mississippi	6,828,837	37,911,770	14,630,863	8,326,762	6,650,849	74,349,081	1,446,777	75,795,858
New York	3,752,970	32,639,776	9,827,638	250	15,634,962	61,855,596	9,958,632	71,814,228
California	13,119,981	17,708,959	5,023,935	34,972	24,464,611	60,352,458	8,693,526	69,045,984
Oregon	4,302,422	12,740,896	3,282,412	0	46,092,057	66,417,787	1,277,969	67,695,756
Wisconsin	3,693,042	33,151,540	3,543,140	0	2,687,321	43,075,043	15,306,734	58,381,777
Iowa	4,834,178	26,787,844	3,973,155	0	7,754,859	43,350,036	5,442,393	48,792,429
Maryland	1,054,715	36,561,530	2,849,575	34,700	2,446,164	42,946,684	1,034,402	43,981,086
Kansas	3,166,216	14,309,860	1,069,907	1,169,028	8,740,886	28,455,897	14,118,161	42,574,058
Arkansas	5,370,869	22,699,419	2,596,193	775,088	5,262,389	36,703,958	4,821,518	41,525,476
Oklahoma	3,953,017	14,437,486	3,063,211	2,566,726	8,899,444	32,855,884	4,213,373	37,069,257
New Jersey	3,348,082	13,103,250	5,396,988	4	2,327,243	24,175,567	7,107,818	31,283,385
Minnesota	3,049,707	12,684,800	1,756,271	0	9,229,586	26,720,364	4,502,223	31,222,587
Washington	3,351,455	16,824,817	3,100,145	0	2,461,889	25,738,306	2,736,609	28,474,915
Nebraska	1,611,170	6,913,557	11,347,161	0	5,029,888	24,901,776	2,365,677	27,267,453
Colorado	1,031,547	3,099,222	3,135,241	143,612	13,683,705	21,093,327	4,991,364	26,084,691
North Dakota	436,806	3,336,877	225,149	0	9,165,021	13,163,853	10,492,060	23,655,913
Wyoming	811,419	1,583,408	18,447	8,082,205	8,290,485	18,785,964	643,814	19,429,778
Puerto Rico	2,271,872	15,017,204	80,784	0	169,867	17,539,727	632,978	18,172,705
South Dakota	594,799	1,791,889	1,582,993	0	7,650,711	11,620,392	508,585	12,128,977
Massachusetts	1,177,063	7,647,860	95,272	0	7,084	8,927,279	2,948,926	11,876,205
Delaware	742,941	5,912,937	1,197,861	0	462,579	8,316,318	3,064,036	11,380,354
Maine	668,061	4,784,660	864,539	0	787,171	7,104,431	744,237	7,848,668
Connecticut	1,456,759	3,258,045	1,012,110	0	21,202	5,748,116	2,087,159	7,835,275
New Hampshire	302,224	4,885,263	125,582	0	74,237	5,387,306	484,648	5,871,954
Hawaii	201,035	2,277,304	2,781	5,070	38,163	2,524,353	50,438	2,574,791
Rhode Island	334,568	736,305	1,306	0	5	1,072,184	318,914	1,391,098
Virgin Islands	244,895	474,262	45,857	0	1,791	766,805	2,108	768,913
Vermont	61,059	89,607	179,767	0	75,500	405,933	240,847	646,780
Guam	121,003	380,013	25	0	67	501,108	0	501,108
District of Columbia	319	79,552	44	0	0	79,915	18,052	97,967
American Samoa	15	5,612	1	0	0	5,628	0	5,628
Northern Marianas	848	2,539	25	0	0	3,412	0	3,412
<b>Total</b>	<b>278,312,216</b>	<b>1,751,052,207</b>	<b>258,881,776</b>	<b>257,645,144</b>	<b>4,746,722,774</b>	<b>7,292,614,117</b>	<b>462,215,492</b>	<b>7,754,829,609</b>

**Note:** Due to an EPA data entry error, one chemical reporting revision for 1999 by a facility, the US Army Letterkenny Depot in Chambersburg, PA, was not included in this table. At the time of publication, the facility had notified EPA that it anticipated revising off-site transfers to disposal for manganese compounds from 5,584,900 pounds to below 500 pounds. Revisions by this facility of two other compounds are included in the State Fact Sheet tables but not included in the tables in the 1999 TRI Public Data Release report.

\* Off-site releases do not include transfers to disposal sent to other TRI facilities that reported the amount as an on-site release.



# 1999 Toxics Release Inventory

**Table 2. TRI On-site Releases by State, 1999, All Industries (Ordered by Total On-site Releases)**

State	On-site Releases					Total On-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	
Nevada	1,529,022	1,868,475	136,431	2,797	1,164,658,138	1,168,194,863
Utah	2,367,919	50,659,560	1,053,343	3,600	1,107,001,696	1,161,086,118
Arizona	2,056,508	3,750,741	6,850	15	956,036,806	961,850,920
Alaska	755,900	1,866,442	96,222	34,946,256	395,352,961	433,017,781
Texas	40,646,276	70,118,030	32,518,781	90,728,865	54,241,223	288,253,175
New Mexico	765,223	1,096,279	23,236	315	258,220,861	260,105,914
Ohio	17,137,596	131,740,782	6,976,957	27,645,086	70,385,697	253,886,118
Pennsylvania	10,320,983	99,089,670	49,055,456	0	13,212,611	171,678,720
North Carolina	7,226,691	116,503,555	9,180,497	0	18,805,589	151,716,332
Louisiana	13,399,238	54,912,706	15,116,128	46,838,209	16,602,257	146,868,538
Florida	6,716,995	90,079,086	2,485,101	32,769,162	12,533,448	144,583,792
Indiana	16,490,066	83,764,476	6,894,995	890,265	32,154,583	140,194,385
Illinois	12,705,085	72,426,732	6,712,012	1,200	45,742,016	137,587,045
Tennessee	13,307,188	93,952,741	2,795,230	0	27,019,381	137,074,540
Alabama	10,609,742	71,268,825	6,737,096	109,005	40,527,170	129,251,838
Montana	681,433	5,839,666	36,057	0	120,570,445	127,127,601
Missouri	5,784,836	36,163,652	3,498,327	0	79,628,111	125,074,926
Georgia	7,096,949	95,413,641	7,496,132	0	13,133,711	123,140,433
Michigan	7,126,035	69,033,514	1,265,578	2,571,942	17,187,913	97,184,982
West Virginia	4,388,691	73,112,287	7,909,902	10	11,032,956	96,443,846
Kentucky	8,574,398	66,741,346	3,014,626	0	15,537,156	93,867,526
Idaho	2,160,507	4,262,059	7,604,261	0	71,613,748	85,640,575
Mississippi	6,828,837	37,911,770	14,630,863	8,326,762	6,650,849	74,349,081
South Carolina	6,668,796	51,386,856	3,470,358	0	12,152,593	73,678,603
Virginia	7,902,245	52,227,023	4,769,822	0	5,261,968	70,161,058
Oregon	4,302,422	12,740,896	3,282,412	0	46,092,057	66,417,787
New York	3,752,970	32,639,776	9,827,638	250	15,634,962	61,855,596
California	13,119,981	17,708,959	5,023,935	34,972	24,464,611	60,352,458
Iowa	4,834,178	26,787,844	3,973,155	0	7,754,859	43,350,036
Wisconsin	3,693,042	33,151,540	3,543,140	0	2,687,321	43,075,043
Maryland	1,054,715	36,561,530	2,849,575	34,700	2,446,164	42,946,684
Arkansas	5,370,869	22,699,419	2,596,193	775,088	5,262,389	36,703,958
Oklahoma	3,953,017	14,373,486	3,063,211	2,566,726	8,899,444	32,855,884
Kansas	3,166,216	14,309,860	1,069,907	1,169,028	8,740,886	28,455,897
Minnesota	3,049,707	12,684,800	1,756,271	0	9,229,586	26,720,364
Washington	3,351,455	16,824,817	3,100,145	0	2,461,889	25,738,306
Nebraska	1,611,170	6,913,557	11,347,161	0	5,029,888	24,901,776
New Jersey	3,348,082	13,103,250	5,396,988	4	2,327,243	24,175,567
Colorado	1,031,547	3,099,222	3,135,241	143,612	13,683,705	21,093,327
Wyoming	811,419	1,583,408	18,447	8,082,205	8,290,485	18,785,964
Puerto Rico	2,271,872	15,017,204	80,784	0	169,867	17,539,727
North Dakota	436,806	3,336,877	225,149	0	9,165,021	13,163,853
South Dakota	594,799	1,791,889	1,582,993	0	7,650,711	11,620,392
Massachusetts	1,177,063	7,647,860	95,272	0	7,084	8,927,279
Delaware	742,941	5,912,937	1,197,861	0	462,579	8,316,318
Maine	668,061	4,784,660	864,539	0	787,171	7,104,431
Connecticut	1,456,759	3,258,045	1,012,110	0	21,202	5,748,116
New Hampshire	302,224	4,885,263	125,582	0	74,237	5,387,306
Hawaii	201,035	2,277,304	2,781	5,070	38,163	2,524,353
Rhode Island	334,568	736,305	1,306	0	5	1,072,184
Virgin Islands	244,895	474,262	45,857	0	1,791	766,805
Guam	121,003	380,013	25	0	67	501,108
Vermont	61,059	89,607	179,767	0	75,500	405,933
District of Columbia	319	79,552	44	0	0	79,915
American Samoa	15	5,612	1	0	0	5,628
Northern Marianas	848	2,539	25	0	0	3,412
Total	278,312,216	1,751,052,207	258,881,776	257,645,144	4,746,722,774	7,292,614,117

# 1999 Toxics Release Inventory



**Table 3. TRI Releases Within the State, 1999, All Industries (Ordered by Total Releases Within the State)**

State	On-site Releases					Total On-site Releases Pounds	Off-site Releases (Transfers Off-site to Disposal)*		Total Releases Within the State Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds		Transferred Into State Pounds	Transferred Within State Pounds	
Nevada	1,529,022	1,868,475	136,431	2,797	1,164,658,138	1,168,194,863	1,076,207	199,740	1,169,470,810
Utah	2,367,919	50,659,560	1,053,343	3,600	1,107,001,696	1,161,086,118	2,775,953	528,494	1,164,390,565
Arizona	2,056,508	3,750,741	6,850	15	956,036,806	961,850,920	632,141	487,086	962,970,147
Alaska	755,900	1,866,442	96,222	34,946,256	395,352,961	433,017,781	12	0	433,017,793
Ohio	17,137,596	131,740,782	6,976,957	27,645,086	70,385,697	253,886,118	50,216,599	40,578,174	344,680,891
Texas	40,646,276	70,118,030	32,518,781	90,728,865	54,241,223	288,253,175	6,359,464	23,201,300	317,813,939
New Mexico	765,223	1,096,279	23,236	315	258,220,861	260,105,914	2,942	2,037,655	262,146,511
Pennsylvania	10,320,983	99,089,670	49,055,456	0	13,212,611	171,678,720	12,468,848	50,467,778	234,615,346
Indiana	16,490,066	83,764,476	6,894,995	890,265	32,154,583	140,194,385	3,470,560	38,635,393	182,300,338
Illinois	12,705,085	72,426,732	6,712,012	1,200	45,742,016	137,587,045	19,099,866	22,287,110	178,974,021
Michigan	7,126,035	69,033,514	1,265,578	2,571,942	17,187,913	97,184,982	22,366,903	43,736,776	163,288,661
North Carolina	7,226,691	116,503,555	9,180,497	0	18,805,589	151,716,332	478,089	5,344,837	157,539,258
Louisiana	13,399,238	54,912,706	15,116,128	46,838,209	16,602,257	146,868,538	4,201,955	1,804,522	152,875,015
Florida	6,716,995	90,079,086	2,485,101	32,769,162	12,533,448	144,583,792	207,583	3,733,879	148,525,254
Tennessee	13,307,188	93,952,741	2,795,230	0	27,019,381	137,074,540	560,671	5,271,563	142,906,774
Alabama	10,609,742	71,268,825	6,737,096	109,005	40,527,170	129,251,838	6,287,781	6,282,919	141,822,538
Missouri	5,784,836	36,163,652	3,498,327	0	79,628,111	125,074,926	7,256,448	3,896,530	136,227,904
Montana	681,433	5,839,666	36,057	0	120,570,445	127,127,601	7,200	376,894	127,511,695
Georgia	7,096,949	95,413,641	7,496,132	0	13,133,711	123,140,433	691,295	2,445,842	126,277,570
Idaho	2,160,507	4,262,059	7,604,261	0	71,613,748	85,640,575	22,368,707	134,452	108,143,734
Kentucky	8,574,398	66,741,346	3,014,626	0	15,537,156	93,867,526	1,311,116	4,867,352	100,045,994
West Virginia	4,388,691	73,112,287	7,909,902	10	11,032,956	96,443,846	244,866	3,033,538	99,722,250
South Carolina	6,668,796	51,386,856	3,470,358	0	12,152,593	73,678,603	1,412,953	7,472,098	82,563,654
Virginia	7,902,245	52,227,023	4,769,822	0	5,261,968	70,161,058	223,611	9,490,069	79,874,738
Mississippi	6,828,837	37,911,770	14,630,863	8,326,762	6,650,849	74,349,081	542,963	920,876	75,812,920
Oregon	4,302,422	12,740,896	3,282,412	0	46,092,057	66,417,787	2,292,250	859,766	69,569,803
New York	3,752,970	32,639,776	9,827,638	250	15,634,962	61,855,596	2,098,749	4,000,334	67,954,679
California	13,119,981	17,708,959	5,023,935	34,972	24,464,611	60,352,458	649,454	5,355,517	66,357,429
Wisconsin	3,693,042	33,151,540	3,543,140	0	2,687,321	43,075,043	3,323,303	11,157,444	57,555,790
Oklahoma	3,953,017	14,373,486	3,063,211	2,566,726	8,899,444	32,855,884	17,008,329	2,432,937	52,297,150
Iowa	4,834,178	26,787,844	3,973,155	0	7,754,859	43,350,036	86,717	1,928,718	45,365,471
Maryland	1,054,715	36,561,530	2,849,575	34,700	2,446,164	42,946,684	708,279	787,050	44,442,013
Arkansas	5,370,869	22,699,419	2,596,193	775,088	5,262,389	36,703,958	1,833,325	1,295,947	39,833,230
New Jersey	3,348,082	13,103,250	5,396,988	4	2,327,243	24,175,567	6,394,294	3,017,980	33,587,841
Kansas	3,166,216	14,309,860	1,069,907	1,169,028	8,740,886	28,455,897	806,302	1,877,688	31,139,887
Minnesota	3,049,707	12,684,800	1,756,271	0	9,229,586	26,720,364	290,697	2,582,517	29,593,578
Nebraska	1,611,170	6,913,557	11,347,161	0	5,029,888	24,901,776	400,131	1,373,008	26,674,915
Washington	3,351,455	16,824,817	3,100,145	0	2,461,889	25,738,306	30,848	883,270	26,652,424
Colorado	1,031,547	3,099,222	3,135,241	143,612	13,683,705	21,093,327	115,616	4,822,568	26,031,511
North Dakota	436,806	3,336,877	225,149	0	9,165,021	13,163,853	2,400	10,482,199	23,648,452
Wyoming	811,419	1,583,408	18,447	8,082,205	8,290,485	18,785,964	991	619,672	19,406,627
Puerto Rico	2,271,872	15,017,204	80,784	0	169,867	17,539,727	0	432,228	17,971,955
South Dakota	594,799	1,791,889	1,582,993	0	7,650,711	11,620,392	0	281,793	11,902,185
Delaware	742,941	5,912,937	1,197,861	0	462,579	8,316,318	9,739	2,986,632	11,312,689
Massachusetts	1,177,063	7,647,860	95,272	0	7,084	8,927,279	758,826	1,415,084	11,101,189
Maine	668,061	4,784,660	864,539	0	787,171	7,104,431	89,222	555,501	7,749,154
Connecticut	1,456,759	3,258,045	1,012,110	0	21,202	5,748,116	374,158	356,642	6,478,916
New Hampshire	302,224	4,885,263	125,582	0	74,237	5,387,306	280,561	138,672	5,806,539
Hawaii	201,035	2,277,304	2,781	5,070	38,163	2,524,353	0	50,433	2,574,786
Rhode Island	334,568	736,305	1,306	0	5	1,072,184	94,393	72,041	1,238,618
Virgin Islands	244,895	474,262	45,857	0	1,791	766,805	0	0	766,805
Vermont	61,059	89,607	179,767	0	75,500	405,933	44,728	71,931	522,592
Guam	121,003	380,013	25	0	67	501,108	0	0	501,108
District of Columbia	319	79,552	44	0	0	79,915	519	0	80,434
American Samoa	15	5,612	1	0	0	5,628	0	0	5,628
Northern Marianas	848	2,539	25	0	0	3,412	0	0	3,412
Other**	0	0	0	0	0	0	7,777,874	0	7,777,874
<b>Total</b>	<b>278,312,216</b>	<b>1,751,052,207</b>	<b>258,881,776</b>	<b>257,645,144</b>	<b>4,746,722,774</b>	<b>7,292,614,117</b>	<b>209,736,438</b>	<b>337,072,449</b>	<b>7,839,423,004</b>

**Note:** Due to an EPA data entry error, one chemical reporting revision for 1999 by a facility, the US Army Letterkenny Depot in Chambersburg, PA, was not included in this table. At the time of publication, the facility had notified EPA that it anticipated revising off-site transfers to disposal (transferred into the state of New Jersey) for manganese compounds from 5,584,900 pounds to below 500 pounds. Revisions by this facility of two other compounds are included in the State Fact Sheet tables but not included in the tables in the 1999 TRI Public Data Release report.

\* Off-site releases do not include transfers to disposal sent to other TRI facilities that reported the amount as an on-site release.

\*\* Other includes waste sent to other countries, to sites not identified by the reporting facility and transfers to POTWs in more than one state.



# 1999 Toxics Release Inventory

**Table 4. TRI Transfers for Further Waste Management and Disposal by State, 1999, All Industries (Ordered by Total Transfers)**

State	Transfers to Recycling Pounds	Transfers to Energy Recovery Pounds	Transfers to Treatment Pounds	Transfers to POTWs		Other Off-site Transfers* Pounds	Off-site Transfers to Disposal** Pounds	Total Transfers Off-site for Further Waste Management/ Disposal Pounds
				Metals and Metal Compounds Pounds	Non-metal TRI Chemicals Pounds			
Michigan	124,261,617	132,870,469	43,817,123	137,602	16,134,105	0	45,373,835	362,594,751
Texas	132,032,425	120,831,731	41,165,672	350,222	38,049,657	48,678	28,734,545	361,212,930
Ohio	182,400,962	59,375,860	16,062,059	246,404	19,684,144	47,672	60,650,350	338,467,451
Pennsylvania	178,547,068	20,480,577	13,482,001	256,494	8,357,111	7,045	65,632,896	286,763,192
Indiana	158,319,582	13,744,415	9,576,718	86,850	10,711,989	3,611	67,403,401	259,846,566
Illinois	90,611,563	35,985,454	9,284,123	177,468	13,505,360	1,618	40,245,710	189,811,296
California	81,811,124	35,983,987	15,897,007	88,309	26,742,703	56,223	11,077,244	171,656,597
New Jersey	38,656,747	69,708,258	9,638,816	46,285	36,207,821	0	7,123,157	161,381,084
Wisconsin	62,167,402	23,971,695	9,500,607	83,017	5,814,275	0	16,130,364	117,667,360
Arkansas	53,167,303	36,117,330	1,577,469	14,853	2,547,215	0	19,354,564	112,778,734
New York	77,439,651	6,215,490	5,585,182	143,569	9,586,250	87,200	10,515,812	109,573,154
South Carolina	44,974,621	33,837,409	4,337,435	161,991	6,612,898	0	17,219,925	107,144,279
Tennessee	80,383,825	9,329,730	2,135,900	62,221	4,696,232	250	10,292,612	106,900,770
North Carolina	73,992,948	11,022,678	3,790,830	46,215	2,742,329	0	7,242,715	98,837,715
Kansas	75,967,979	3,401,188	336,124	17,836	1,877,755	0	16,845,369	98,446,251
Kentucky	44,753,531	22,837,156	8,622,902	63,492	3,207,571	3,634	14,735,104	94,223,390
Alabama	49,927,325	12,606,574	8,667,218	23,399	5,251,307	0	12,482,712	88,958,535
Missouri	56,264,793	10,494,351	8,802,348	139,199	7,093,416	0	4,599,070	87,393,177
Georgia	52,791,649	11,918,201	4,780,294	399,705	3,920,890	0	8,932,466	82,743,205
Louisiana	49,146,455	12,916,341	16,186,818	7,981	558,790	0	3,576,428	82,392,813
Virginia	27,356,523	7,763,884	1,328,047	86,728	17,590,674	0	10,725,452	64,851,308
Iowa	36,823,423	3,886,152	4,159,855	206,031	8,118,088	5	11,554,066	64,747,620
Puerto Rico	18,112,185	26,707,632	12,881,324	2,351	1,940,623	553,773	647,178	60,845,066
Nebraska	41,301,459	373,349	270,252	13,245	871,138	0	6,621,108	49,450,551
Arizona	40,795,937	2,330,219	1,734,331	3,907	2,580,378	0	1,565,354	49,010,126
Minnesota	24,324,715	2,297,671	2,608,334	171,082	14,501,299	0	4,564,518	48,467,619
Massachusetts	22,937,240	6,600,573	4,689,000	26,197	9,615,799	10,724	3,003,084	46,882,617
Oregon	19,016,278	2,327,767	1,976,167	64,551	8,331,273	0	10,384,394	42,100,430
Florida	19,757,651	5,417,276	2,965,436	10,615	8,234,206	686	5,473,700	41,859,570
Mississippi	19,583,337	6,740,671	2,089,488	8,910	3,788,868	0	1,465,855	33,677,129
West Virginia	8,054,754	12,774,474	5,333,252	3,933	3,068,217	0	4,196,321	33,430,951
Oklahoma	24,965,920	1,515,479	562,495	13,224	1,571,652	0	4,397,979	33,026,749
Colorado	16,584,554	5,569,344	2,559,673	2,501	1,141,190	0	6,165,579	32,022,841
Connecticut	20,079,612	2,179,189	4,654,962	41,305	1,578,066	143	2,132,502	30,665,779
New Hampshire	15,527,874	2,704,092	355,200	4,247	745,858	0	489,348	19,826,619
Washington	11,731,647	718,153	974,771	3,481	3,005,515	0	3,279,166	19,712,733
Delaware	9,048,521	1,362,314	1,142,228	11,296	2,985,357	0	3,057,266	17,606,982
Maryland	4,772,400	913,979	6,658,918	87,440	3,308,061	0	967,114	16,707,912
New Mexico	7,063,404	89,583	118,856	131	797,357	0	4,505,130	12,574,461
North Dakota	551,786	65,892	1,696	286	562,277	0	10,494,815	11,676,752
Utah	2,863,965	81,508	664,531	6,403	875,197	0	6,864,608	11,356,212
Rhode Island	3,903,416	673,830	976,440	9,186	504,920	40,781	326,987	6,435,560
Maine	2,107,218	238,467	191,797	71,569	595,833	0	673,799	3,878,683
Nevada	2,331,705	19,740	395,809	34	38,171	0	633,149	3,418,608
Idaho	1,502,868	119,136	24,817	537	835,975	0	451,416	2,934,749
South Dakota	861,567	369,281	413,440	844	241,876	0	507,841	2,394,849
Montana	239,411	23,611	25,101	10	11,275	0	1,745,012	2,044,420
Vermont	1,305,303	9,317	87,610	531	219,319	0	241,426	1,863,506
Wyoming	92,100	3,606	547	20	285	0	1,394,582	1,491,140
Hawaii	178,352	1,139	3,984	0	0	0	50,438	233,913
Virgin Islands	159,347	4,184	18,692	0	0	0	2,189	184,412
Alaska	51,521	1,016	776	0	11	0	5	53,329
District of Columbia	16,371	0	0	0	0	0	18,052	34,423
American Samoa	0	3,009	0	0	0	0	0	3,009
Guam	0	0	0	0	0	0	0	0
Northern Marianas	0	0	0	0	0	0	0	0
<b>Total</b>	<b>2,111,620,934</b>	<b>777,534,431</b>	<b>293,114,475</b>	<b>3,403,707</b>	<b>320,960,576</b>	<b>862,043</b>	<b>576,767,712</b>	<b>4,084,263,878</b>

Note: Due to an EPA data entry error, one chemical reporting revision for 1999 by a facility, the US Army Letterkenny Depot in Chambersburg, PA, was not included in this table. At the time of publication, the facility had notified EPA that it anticipated revising off-site transfers to disposal for manganese compounds from 5,584,900 pounds to below 500 pounds. Revisions by this facility of two other compounds are included in the State Fact Sheet tables but not included in the tables in the 1999 TRI Public Data Release report.

\* Transfers reported without a valid waste management code.

\*\* Excludes metals and metal compounds sent to POTWs

# 1999 Toxics Release Inventory



**Table 5. TRI Transfers to POTWs by State, 1999, All Industries  
(Ordered by Total Transfers to POTWs)**

State	Transfers of Metals and Metal Compounds Pounds	Transfers of Non-metal TRI Chemicals Pounds	Total Transfers to POTWs Pounds
Texas	350,222	38,049,657	38,399,879
New Jersey	46,285	36,207,821	36,254,106
California	88,309	26,742,703	26,831,012
Ohio	246,404	19,684,144	19,930,548
Virginia	86,728	17,590,674	17,677,402
Michigan	137,602	16,134,105	16,271,707
Minnesota	171,082	14,501,299	14,672,381
Illinois	177,468	13,505,360	13,682,828
Indiana	86,850	10,711,989	10,798,839
New York	143,569	9,586,250	9,729,819
Massachusetts	26,197	9,615,799	9,641,996
Pennsylvania	256,494	8,357,111	8,613,605
Oregon	64,551	8,331,273	8,395,824
Iowa	206,031	8,118,088	8,324,119
Florida	10,615	8,234,206	8,244,821
Missouri	139,199	7,093,416	7,232,615
South Carolina	161,991	6,612,898	6,774,889
Wisconsin	83,017	5,814,275	5,897,292
Alabama	23,399	5,251,307	5,274,706
Tennessee	62,221	4,696,232	4,758,453
Georgia	399,705	3,920,890	4,320,595
Mississippi	8,910	3,788,868	3,797,778
Maryland	87,440	3,308,061	3,395,501
Kentucky	63,492	3,207,571	3,271,063
West Virginia	3,933	3,068,217	3,072,150
Washington	3,481	3,005,515	3,008,996
Delaware	11,296	2,985,357	2,996,653
North Carolina	46,215	2,742,329	2,788,544
Arizona	3,907	2,580,378	2,584,285
Arkansas	14,853	2,547,215	2,562,068
Puerto Rico	2,351	1,940,623	1,942,974
Kansas	17,836	1,877,755	1,895,591
Connecticut	41,305	1,578,066	1,619,371
Oklahoma	13,224	1,571,652	1,584,876
Colorado	2,501	1,141,190	1,143,691
Nebraska	13,245	871,138	884,383
Utah	6,403	875,197	881,600
Idaho	537	835,975	836,512
New Mexico	131	797,357	797,488
New Hampshire	4,247	745,858	750,105
Maine	71,569	595,833	667,402
Louisiana	7,981	558,790	566,771
North Dakota	286	562,277	562,563
Rhode Island	9,186	504,920	514,106
South Dakota	844	241,876	242,720
Vermont	531	219,319	219,850
Nevada	34	38,171	38,205
Montana	10	11,275	11,285
Wyoming	20	285	305
Alaska	0	11	11
Hawaii	0	0	0
Virgin Islands	0	0	0
District of Columbia	0	0	0
American Samoa	0	0	0
Guam	0	0	0
Northern Marianas	0	0	0
<b>Total</b>	<b>3,403,707</b>	<b>320,960,576</b>	<b>324,364,283</b>





# 1999 Toxics Release Inventory

**Table 6. TRI On-site and Off-site Releases by State, 1999, Original Industries (Ordered by Total Releases)\*, \*\***

State	On-site Releases					Total On-site Releases Pounds	Off-site Releases	Total On- and Off-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds		Transfers Off-site to Disposal Pounds	
Texas	40,233,934	62,248,502	32,416,099	86,548,912	19,389,221	240,836,668	19,681,663	260,518,331
Ohio	16,883,811	46,101,611	6,776,057	14,285,086	19,270,795	103,317,360	48,231,725	151,549,085
Pennsylvania	10,236,206a	26,405,693	48,992,454	0	3,938,223	89,572,576	55,652,593	145,225,169
Louisiana	13,375,238	53,483,413	15,037,778	44,030,834	5,729,909	131,657,172	3,457,710	135,114,882
Indiana	15,287,230	36,834,965	6,749,598	890,265	15,551,219	75,313,277	59,278,476	134,591,753
Illinois	12,598,694	37,773,078	6,459,380	1,200	18,666,085	75,498,437	32,785,779	108,284,216
Tennessee	13,269,860	60,382,785	2,074,806	0	5,827,305	81,554,756	10,033,610	91,588,366
Utah	2,269,031	48,351,497	1,037,793	3,600	30,717,542	82,379,463	6,442,621	88,822,084
Alabama	10,591,401	38,547,601	6,520,256	5	10,927,722	66,586,985	12,174,680	78,761,665
Florida	6,604,435	29,419,553	2,430,306	32,769,162	1,911,345	73,134,801	4,240,726	77,375,527
Michigan	7,076,936	29,830,422	1,126,839	2,571,942	2,569,888	43,176,027	29,671,221	72,847,248
North Carolina	7,138,482	35,057,879	9,100,746	0	9,597,859	60,894,966	6,738,945	67,633,911
South Carolina	6,662,193	36,107,839	3,432,379	0	3,420,356	49,622,767	17,107,166	66,729,933
Georgia	7,075,753	40,820,647	7,382,145	0	1,907,466	57,186,011	9,312,544	66,498,555
Mississippi	6,826,411	25,946,763	14,627,488	8,326,762	5,278,091	61,005,515	1,474,749	62,480,264
Virginia	7,864,008	33,370,701	4,708,404	0	2,063,718	48,006,831	9,807,816	57,814,647
Missouri	5,567,302	23,628,637	3,343,958	0	19,575,095	52,114,992	4,737,858	56,852,850
Arkansas	5,358,261	21,664,399	2,571,428	775,088	2,506,240	32,875,416	18,971,427	51,846,843
Arizona	1,436,383	1,739,354	5,452	15	46,860,267	50,041,471	830,356	50,871,827
Montana	497,112	4,871,665	36,047	0	43,140,506	48,545,330	1,368,220	49,913,550
Kentucky	8,543,259	21,972,248	1,736,386	0	2,212,304	34,464,197	13,778,115	48,242,312
California	12,795,049	16,548,865	5,020,783	34,972	2,960,704	37,360,373	7,637,338	44,997,711
Wisconsin	3,673,622	21,805,921	3,523,115	0	1,290,795	30,293,453	11,603,539	41,896,992
Iowa	4,822,302	17,654,526	3,966,598	0	3,144,051	29,587,477	11,395,757	40,983,234
New York	3,638,871	13,183,105	9,458,323	250	324,686	26,605,235	9,918,928	36,524,163
Kansas	3,106,993	12,224,207	1,063,516	1,169,028	1,871,899	19,435,643	16,376,951	35,812,594
Oregon	4,287,492	12,502,453	3,282,352	0	479,763	20,552,060	10,430,154	30,982,214
Idaho	2,143,745	4,245,523	7,592,735	0	12,199,726	26,181,729	451,904	26,633,633
Washington	3,337,262	15,576,719	3,098,503	0	199,911	22,212,395	3,021,889	25,234,284
Nebraska	1,587,493	3,449,971	11,294,646	0	729,937	17,062,047	6,218,710	23,280,757
Oklahoma	3,935,157	12,828,333	3,046,633	52,827	454,868	20,317,818	2,840,442	23,158,260
West Virginia	3,823,643	8,002,218	7,606,602	10	125,378	19,557,851	2,355,884	21,913,735
New Jersey	3,145,743	5,037,564	5,382,208	4	1,943,543	15,509,062	6,363,543	21,872,605
New Mexico	538,604	429,241	15,028	315	19,279,439	20,262,627	200,551	20,463,178
Minnesota	3,036,631	11,721,097	1,735,699	0	318,026	16,811,453	3,502,262	20,313,715
Maryland	1,023,715	6,970,083	2,625,929	0	2,345,404	12,965,131	681,242	13,646,373
Wyoming	807,191	772,526	6,099	8,082,205	12,553	9,680,574	759,569	10,440,143
Maine	658,630	4,682,129	864,244	0	787,171	6,992,174	737,564	7,729,738
Delaware	739,505	2,511,433	1,186,039	0	278,319	4,715,296	2,997,410	7,712,706
Colorado	989,591	1,731,841	3,114,517	0	242,575	6,078,524	1,478,478	7,557,002
Connecticut	1,434,566	2,651,956	1,011,848	0	21,202	5,119,572	1,291,246	6,410,818
Puerto Rico	2,241,782	3,515,478	70,474	0	3,911	5,831,645	498,835	6,330,480
Massachusetts	1,073,588	2,764,723	93,926	0	1,996	3,934,233	1,696,492	5,630,725
Nevada	261,986	653,998	0	0	3,404,963	4,320,947	47,577	4,368,524
South Dakota	469,657	1,587,908	1,354,662	0	13,211	3,425,438	138,903	3,564,341
New Hampshire	302,172	2,172,152	125,582	0	53,937	2,653,843	469,525	3,123,368
North Dakota	430,038	1,846,500	162,418	0	2,756	2,441,712	156,491	2,598,203
Alaska	278,102	1,298,921	94,126	256	577	1,671,982	0	1,671,982
Rhode Island	322,046	670,337	1,265	0	5	993,653	319,675	1,313,328
Virgin Islands	244,020	406,662	45,847	0	1,791	698,320	1,179	699,499
Vermont	61,059	89,607	179,767	0	75,500	405,933	241,957	647,890
Hawaii	159,278	194,210	2,489	5,065	38,098	399,140	1,993	401,133
District of Columbia	0	0	44	0	0	44	18,052	18,096
<b>Total</b>	<b>270,765,473</b>	<b>904,289,459</b>	<b>253,591,816</b>	<b>199,547,803</b>	<b>323,667,851</b>	<b>1,951,862,402</b>	<b>469,632,040</b>	<b>2,421,494,442</b>

**Note:** Due to an EPA data entry error, one chemical reporting revision for 1999 by a facility, the US Army Letterkenny Depot in Chambersburg, PA, was not included in this table. At the time of publication, the facility had notified EPA that it anticipated revising off-site transfers to disposal for manganese compounds from 5,584,900 pounds to below 500 pounds. Revisions by this facility of two other compounds are included in the state fact sheet tables but not included in the tables in the 1999 TRI Public Data Release report.

\* One facility, Phelps Dodge Miami Inc. in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1999 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.

\*\* This table includes all off-site releases reported, including off-site transfers to disposal sent to other facilities that reported that amount as on-site release. Such off-site transfers are only excluded where the table presents amounts for all TRI facilities, for example on Table 1. For amounts of off-site releases which exclude transfers to disposal to other TRI facilities reporting that amount as an on-site release see the individual state fact sheets.

# 1999 Toxics Release Inventory



**Table 7. TRI On-site Releases by State, 1999, Original Industries (Ordered by Total On-site Releases)\***

State	On-site Releases					Total On-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	
Texas	40,233,934	62,248,502	32,416,099	86,548,912	19,389,221	240,836,668
Louisiana	13,375,238	53,483,413	15,037,778	44,030,834	5,729,909	131,657,172
Ohio	16,883,811	46,101,611	6,776,057	14,285,086	19,270,795	103,317,360
Pennsylvania	10,236,206	26,405,693	48,992,454	0	3,938,223	89,572,576
Utah	2,269,031	48,351,497	1,037,793	3,600	30,717,542	82,379,463
Tennessee	13,269,860	60,382,785	2,074,806	0	5,827,305	81,554,756
Illinois	12,598,694	37,773,078	6,459,380	1,200	18,666,085	75,498,437
Indiana	15,287,230	36,834,965	6,749,598	890,265	15,551,219	75,313,277
Florida	6,604,435	29,419,553	2,430,306	32,769,162	1,911,345	73,134,801
Alabama	10,591,401	38,547,601	6,520,256	5	10,927,722	66,586,985
Mississippi	6,826,411	25,946,763	14,627,488	8,326,762	5,278,091	61,005,515
North Carolina	7,138,482	35,057,879	9,100,746	0	9,597,859	60,894,966
Georgia	7,075,753	40,820,647	7,382,145	0	1,907,466	57,186,011
Missouri	5,567,302	23,628,637	3,343,958	0	19,575,095	52,114,992
Arizona	1,436,383	1,739,354	5,452	15	46,860,267	50,041,471
South Carolina	6,662,193	36,107,839	3,432,379	0	3,420,356	49,622,767
Montana	497,112	4,871,665	36,047	0	43,140,506	48,545,330
Virginia	7,864,008	33,370,701	4,708,404	0	2,063,718	48,006,831
Michigan	7,076,936	29,830,422	1,126,839	2,571,942	2,569,888	43,176,027
California	12,795,049	16,548,865	5,020,783	34,972	2,960,704	37,360,373
Kentucky	8,543,259	21,972,248	1,736,386	0	2,212,304	34,464,197
Arkansas	5,358,261	21,664,399	2,571,428	775,088	2,506,240	32,875,416
Wisconsin	3,673,622	21,805,921	3,523,115	0	1,290,795	30,293,453
Iowa	4,822,302	17,654,526	3,966,598	0	3,144,051	29,587,477
New York	3,638,871	13,183,105	9,458,323	250	324,686	26,605,235
Idaho	2,143,745	4,245,523	7,592,735	0	12,199,726	26,181,729
Washington	3,337,262	15,576,719	3,098,503	0	199,911	22,212,395
Oregon	4,287,492	12,502,453	3,282,352	0	479,763	20,552,060
Oklahoma	3,935,157	12,828,333	3,046,633	52,827	454,868	20,317,818
New Mexico	538,604	429,241	15,028	315	19,279,439	20,262,627
West Virginia	3,823,643	8,002,218	7,606,602	10	125,378	19,557,851
Kansas	3,106,993	12,224,207	1,063,516	1,169,028	1,871,899	19,435,643
Nebraska	1,587,493	3,449,971	11,294,646	0	729,937	17,062,047
Minnesota	3,036,631	11,721,097	1,735,699	0	318,026	16,811,453
New Jersey	3,145,743	5,037,564	5,382,208	4	1,943,543	15,509,062
Maryland	1,023,715	6,970,083	2,625,929	0	2,345,404	12,965,131
Wyoming	807,191	772,526	6,099	8,082,205	12,553	9,680,574
Maine	658,630	4,682,129	864,244	0	787,171	6,992,174
Colorado	989,591	1,731,841	3,114,517	0	242,575	6,078,524
Puerto Rico	2,241,782	3,515,478	70,474	0	3,911	5,831,645
Connecticut	1,434,566	2,651,956	1,011,848	0	21,202	5,119,572
Delaware	739,505	2,511,433	1,186,039	0	278,319	4,715,296
Nevada	261,986	653,998	0	0	3,404,963	4,320,947
Massachusetts	1,073,588	2,764,723	93,926	0	1,996	3,934,233
South Dakota	469,657	1,587,908	1,354,662	0	13,211	3,425,438
New Hampshire	302,172	2,172,152	125,582	0	53,937	2,653,843
North Dakota	430,038	1,846,500	162,418	0	2,756	2,441,712
Alaska	278,102	1,298,921	94,126	256	577	1,671,982
Rhode Island	322,046	670,337	1,265	0	5	993,653
Virgin Islands	244,020	406,662	45,847	0	1,791	698,320
Vermont	61,059	89,607	179,767	0	75,500	405,933
Hawaii	159,278	194,210	2,489	5,065	38,098	399,140
District of Columbia	0	0	44	0	0	44
<b>Total</b>	<b>270,765,473</b>	<b>904,289,459</b>	<b>253,591,816</b>	<b>199,547,803</b>	<b>323,667,851</b>	<b>1,951,862,402</b>

\* One facility, Phelps Dodge Miami Inc. in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1999 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.



# 1999 Toxics Release Inventory

**Table 8. TRI On-site and Off-site Releases by State, 1999, New Industries (Ordered by Total Releases)\*, \*\***

State	On-site Releases					Total On-site Releases Pounds	Off-site	Total On- and Off-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Release to Land Pounds		Transfers Off-site to Disposal Pounds	
Nevada	1,267,036	1,214,477	136,431	2,797	1,161,253,175	1,163,873,916	585,606	1,164,459,522
Utah	98,888	2,308,063	15,550	0	1,076,284,154	1,078,706,655	428,390	1,079,135,045
Arizona	620,125	2,011,387	1,398	0	909,176,539	911,809,449	738,905	912,548,354
Alaska	477,798	567,521	2,096	34,946,000	395,352,384	431,345,799	5	431,345,804
New Mexico	226,619	667,038	8,208	0	238,941,422	239,843,287	4,304,710	244,147,997
Ohio	253,785	85,639,171	200,900	13,360,000	51,114,902	150,568,758	12,665,029	163,233,787
Pennsylvania	84,777	72,683,977	63,002	0	9,274,388	82,106,144	10,236,797	92,342,941
North Carolina	88,209	81,445,676	79,751	0	9,207,730	90,821,366	549,985	91,371,351
Montana	184,321	968,001	10	0	77,429,939	78,582,271	376,802	78,959,073
West Virginia	565,048	65,110,069	303,300	0	10,907,578	76,885,995	1,844,370	78,730,365
Indiana	1,202,836	46,929,511	145,397	0	16,603,364	64,881,108	8,211,775	73,092,883
Missouri	217,534	12,535,015	154,369	0	60,053,016	72,959,934	411	72,960,345
Florida	112,560	60,659,533	54,795	0	10,622,103	71,448,991	1,243,589	72,692,580
Michigan	49,099	39,203,092	138,739	0	14,618,025	54,008,955	15,840,216	69,849,171
Illinois	106,391	34,653,654	252,632	0	27,075,931	62,088,608	7,637,399	69,726,007
Georgia	21,196	54,592,994	113,987	0	11,226,245	65,954,422	19,627	65,974,049
Alabama	18,341	32,721,224	216,840	109,000	29,599,448	62,664,853	331,431	62,996,284
Kentucky	31,139	44,769,098	1,278,240	0	13,324,852	59,403,329	1,020,481	60,423,810
Idaho	16,762	16,536	11,526	0	59,414,022	59,458,846	49	59,458,895
Texas	412,342	7,869,528	102,682	4,179,953	34,852,002	47,416,507	9,403,104	56,819,611
Tennessee	37,328	33,569,956	720,424	0	21,192,076	55,519,784	321,223	55,841,007
Oregon	14,930	238,443	60	0	45,612,294	45,865,727	18,791	45,884,518
New York	114,099	19,456,671	369,315	0	15,310,276	35,250,361	740,453	35,990,814
Maryland	31,000	29,591,447	223,646	34,700	100,760	29,981,553	373,312	30,354,865
California	324,932	1,160,094	3,152	0	21,503,907	22,992,085	3,528,215	26,520,300
South Carolina	6,603	15,279,017	37,979	0	8,732,237	24,055,836	274,750	24,330,586
Virginia	38,237	18,856,322	61,418	0	3,198,250	22,154,227	1,004,364	23,158,591
North Dakota	6,768	1,490,377	62,731	0	9,162,265	10,722,141	10,338,610	21,060,751
Colorado	41,956	1,367,381	20,724	143,612	13,441,130	15,014,803	4,689,602	19,704,405
Wisconsin	19,420	11,345,619	20,025	0	1,396,526	12,781,590	4,609,842	17,391,432
Louisiana	24,000	1,429,293	78,350	2,807,375	10,872,348	15,211,366	126,699	15,338,065
Iowa	11,876	9,133,318	6,557	0	4,610,808	13,762,559	364,340	14,126,899
Oklahoma	17,860	1,545,153	16,578	2,513,899	8,444,576	12,538,066	1,570,761	14,108,827
Mississippi	2,426	11,965,007	3,375	0	1,372,758	13,343,566	16	13,343,582
Puerto Rico	30,090	11,501,726	10,310	0	165,956	11,708,082	150,694	11,858,776
Minnesota	13,076	963,703	20,572	0	8,911,560	9,908,911	1,233,338	11,142,249
Wyoming	4,228	810,882	12,348	0	8,277,932	9,105,390	635,033	9,740,423
Kansas	59,223	2,085,653	6,391	0	6,868,987	9,020,254	486,254	9,506,508
New Jersey	202,339	8,065,686	14,780	0	383,700	8,666,505	805,899	9,472,404
South Dakota	125,142	203,981	228,331	0	7,637,500	8,194,954	369,782	8,564,736
Nebraska	23,677	3,463,586	52,515	0	4,299,951	7,839,729	415,643	8,255,372
Massachusetts	103,475	4,883,137	1,346	0	5,088	4,993,046	1,332,789	6,325,835
Arkansas	12,608	1,035,020	24,765	0	2,756,149	3,828,542	397,990	4,226,532
Washington	14,193	1,248,098	1,642	0	2,261,978	3,525,911	260,758	3,786,669
Delaware	3,436	3,401,504	11,822	0	184,260	3,601,022	71,152	3,672,174
New Hampshire	52	2,713,111	0	0	20,300	2,733,463	24,070	2,757,533
Hawaii	41,757	2,083,094	292	5	65	2,125,213	48,445	2,173,658
Connecticut	22,193	606,089	262	0	0	628,544	882,561	1,511,105
Guam	121,003	380,013	25	0	67	501,108	0	501,108
Maine	9,431	102,531	295	0	0	112,257	7,804	120,061
Rhode Island	12,522	65,968	41	0	0	78,531	16,498	95,029
District of Columbia	319	79,552	0	0	0	79,871	0	79,871
Virgin Islands	875	67,600	10	0	0	68,485	1,010	69,495
American Samoa	15	5,612	1	0	0	5,628	0	5,628
Northern Marianas	848	2,539	25	0	0	3,412	0	3,412
<b>Total</b>	<b>7,546,743</b>	<b>846,762,748</b>	<b>5,289,960</b>	<b>58,097,341</b>	<b>4,423,054,923</b>	<b>5,340,751,715</b>	<b>110,539,379</b>	<b>5,451,291,094</b>

\* One facility, Phelps Dodge Miami Inc. in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1999 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.

\*\* This table includes all off-site releases reported, including off-site transfers to disposal sent to other facilities that reported that amount as on on-site release. Such off-site transfers are only excluded where the table presents amounts for all TRI facilities, for example on Table 1. For amounts of off-site releases which exclude transfers to disposal to other TRI facilities reporting that amount as an on-site release see the individual state fact sheets.

# 1999 Toxics Release Inventory



**Table 9. TRI On-site Releases by State, 1999, New Industries (Ordered by Total On-site Releases)\***

State	On-site Releases					Total On-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	
Nevada	1,267,036	1,214,477	136,431	2,797	1,161,253,175	1,163,873,916
Utah	98,888	2,308,063	15,550	0	1,076,284,154	1,078,706,655
Arizona	620,125	2,011,387	1,398	0	909,176,539	911,809,449
Alaska	477,798	567,521	2,096	34,946,000	395,352,384	431,345,799
New Mexico	226,619	667,038	8,208	0	238,941,422	239,843,287
Ohio	253,785	85,639,171	200,900	13,360,000	51,114,902	150,568,758
North Carolina	88,209	81,445,676	79,751	0	9,207,730	90,821,366
Pennsylvania	84,777	72,683,977	63,002	0	9,274,388	82,106,144
Montana	184,321	968,001	10	0	77,429,939	78,582,271
West Virginia	565,048	65,110,069	303,300	0	10,907,578	76,885,995
Missouri	217,534	12,535,015	154,369	0	60,053,016	72,959,934
Florida	112,560	60,659,533	54,795	0	10,622,103	71,448,991
Georgia	21,196	54,592,994	113,987	0	11,226,245	65,954,422
Indiana	1,202,836	46,929,511	145,397	0	16,603,364	64,881,108
Alabama	18,341	32,721,224	216,840	109,000	29,599,448	62,664,853
Illinois	106,391	34,653,654	252,632	0	27,075,931	62,088,608
Idaho	16,762	16,536	11,526	0	59,414,022	59,458,846
Kentucky	31,139	44,769,098	1,278,240	0	13,324,852	59,403,329
Tennessee	37,328	33,569,956	720,424	0	21,192,076	55,519,784
Michigan	49,099	39,203,092	138,739	0	14,618,025	54,008,955
Texas	412,342	7,869,528	102,682	4,179,953	34,852,002	47,416,507
Oregon	14,930	238,443	60	0	45,612,294	45,865,727
New York	114,099	19,456,671	369,315	0	15,310,276	35,250,361
Maryland	31,000	29,591,447	223,646	34,700	100,760	29,981,553
South Carolina	6,603	15,279,017	37,979	0	8,732,237	24,055,836
California	324,932	1,160,094	3,152	0	21,503,907	22,992,085
Virginia	38,237	18,856,322	61,418	0	3,198,250	22,154,227
Louisiana	24,000	1,429,293	78,350	2,807,375	10,872,348	15,211,366
Colorado	41,956	1,367,381	20,724	143,612	13,441,130	15,014,803
Iowa	11,876	9,133,318	6,557	0	4,610,808	13,762,559
Mississippi	2,426	11,965,007	3,375	0	1,372,758	13,343,566
Wisconsin	19,420	11,345,619	20,025	0	1,396,526	12,781,590
Oklahoma	17,860	1,545,153	16,578	2,513,899	8,444,576	12,538,066
Puerto Rico	30,090	11,501,726	10,310	0	165,956	11,708,082
North Dakota	6,768	1,490,377	62,731	0	9,162,265	10,722,141
Minnesota	13,076	963,703	20,572	0	8,911,560	9,908,911
Wyoming	4,228	810,882	12,348	0	8,277,932	9,105,390
Kansas	59,223	2,085,653	6,391	0	6,868,987	9,020,254
New Jersey	202,339	8,065,686	14,780	0	383,700	8,666,505
South Dakota	125,142	203,981	228,331	0	7,637,500	8,194,954
Nebraska	23,677	3,463,586	52,515	0	4,299,951	7,839,729
Massachusetts	103,475	4,883,137	1,346	0	5,088	4,993,046
Arkansas	12,608	1,035,020	24,765	0	2,756,149	3,828,542
Delaware	3,436	3,401,504	11,822	0	184,260	3,601,022
Washington	14,193	1,248,098	1,642	0	2,261,978	3,525,911
New Hampshire	52	2,713,111	0	0	20,300	2,733,463
Hawaii	41,757	2,083,094	292	5	65	2,125,213
Connecticut	22,193	606,089	262	0	0	628,544
Guam	121,003	380,013	25	0	67	501,108
Maine	9,431	102,531	295	0	0	112,257
District of Columbia	319	79,552	0	0	0	79,871
Rhode Island	12,522	65,968	41	0	0	78,531
Virgin Islands	875	67,600	10	0	0	68,485
American Samoa	15	5,612	1	0	0	5,628
Northern Marianas	848	2,539	25	0	0	3,412
<b>Total</b>	<b>7,546,743</b>	<b>846,762,748</b>	<b>5,289,960</b>	<b>58,097,341</b>	<b>4,423,054,923</b>	<b>5,340,751,715</b>

\* One facility, Phelps Dodge Miami Inc. in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1999 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.



# 1999 Toxics Release Inventory

**Table 10. TRI On-site and Off-site Releases by State, 1998, All Industries (Ordered by Total Releases)**

State	On-site Releases					Total On-site Releases Pounds	Off-site Releases	Total On- and Off-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds		Transfers Off-site to Disposal* Pounds	
Nevada	1,880,409	2,494,976	241,540	1,404	1,314,400,502	1,319,018,831	107,497	1,319,126,328
Arizona	4,278,090	5,834,312	6,236	4	1,058,594,122	1,068,712,764	848,233	1,069,560,997
Utah	2,149,664	62,799,938	1,146,800	0	507,852,411	573,948,813	1,200,258	575,149,071
Ohio	16,201,439	143,170,721	6,273,716	28,770,724	94,295,040	288,711,640	49,382,459	338,094,099
Texas	43,674,122	77,209,813	31,824,971	93,189,637	52,388,888	298,287,431	23,137,732	321,425,163
Alaska	983,390	1,967,500	97,777	29,024,256	274,958,784	307,031,707	637	307,032,344
New Mexico	1,065,129	1,577,504	20,984	0	256,101,227	258,764,844	5,656,261	264,421,105
Pennsylvania	11,077,437	85,884,145	48,620,162	80,401	12,062,460	157,724,605	60,822,502	218,547,107
Indiana	17,581,369	80,195,339	2,719,896	1,040,393	33,818,829	135,355,826	56,084,216	191,440,042
Illinois	14,188,130	77,309,646	7,153,814	250	49,019,503	147,671,343	22,485,674	170,157,017
Louisiana	16,565,492	63,235,495	10,021,773	53,737,384	14,906,215	158,466,359	2,307,035	160,773,394
North Carolina	8,472,934	109,452,636	8,152,623	29,100	19,289,228	145,396,521	5,360,374	150,756,895
Florida	7,327,276	85,371,487	2,303,352	27,473,107	14,949,335	137,424,557	4,346,890	141,771,447
Tennessee	12,990,226	92,319,152	3,433,678	3,830,800	22,307,337	134,881,193	6,306,119	141,187,312
Michigan	7,763,189	68,063,137	865,198	3,459,889	19,954,548	100,105,961	40,525,140	140,631,101
Alabama	12,146,291	70,301,159	6,234,191	45,005	42,077,464	130,804,110	9,328,457	140,132,567
Missouri	6,682,434	36,785,897	5,047,350	0	85,976,602	134,492,283	4,582,886	139,075,169
Montana	816,625	4,453,906	94,168	0	118,640,075	124,004,774	847,799	124,852,573
Georgia	6,517,261	88,696,444	7,128,519	0	13,293,650	115,635,874	2,759,827	118,395,701
West Virginia	4,004,486	71,707,342	7,800,464	38	11,680,198	95,192,528	8,395,744	103,588,272
Kentucky	9,110,868	67,173,934	3,162,721	8,613	17,920,255	97,376,391	5,880,686	103,257,077
South Carolina	6,939,036	51,368,275	4,571,466	0	33,491,403	96,370,180	5,100,980	101,471,160
Idaho	1,966,278	4,330,766	5,583,720	0	86,962,568	98,843,332	215,124	99,058,456
Virginia	9,235,518	53,224,197	4,354,284	0	4,314,211	71,128,210	8,051,220	79,179,430
New York	4,768,194	33,837,327	11,595,014	250	18,449,392	68,650,177	5,968,643	74,618,820
Mississippi	7,756,413	37,096,764	14,058,487	6,892,506	7,497,765	73,301,935	1,232,943	74,534,878
California	9,125,699	19,487,538	3,929,711	81,905	28,049,454	60,674,307	8,537,121	69,211,428
Oregon	3,958,293	12,630,587	3,595,235	0	45,297,068	65,481,183	1,884,073	67,365,256
Wisconsin	3,955,280	35,078,793	5,627,278	0	3,288,985	47,950,336	15,025,109	62,975,445
Iowa	6,183,804	28,698,049	3,376,015	0	7,048,006	45,305,874	5,555,966	50,861,840
Arkansas	5,940,578	21,448,814	2,346,845	1,248,950	4,366,175	35,351,362	5,380,392	40,731,754
Oklahoma	4,747,095	15,332,734	2,308,415	4,473,550	9,262,564	36,124,358	4,314,181	40,438,539
Maryland	1,289,581	31,778,235	2,553,054	45,000	2,142,319	37,808,189	1,155,548	38,963,737
Kansas	4,321,670	20,156,451	846,966	1,350,665	8,108,450	34,784,202	3,165,619	37,949,821
Washington	4,011,924	19,260,270	3,126,509	0	4,254,733	30,653,436	3,864,011	34,517,447
Minnesota	3,274,723	13,766,020	1,424,458	0	9,668,127	28,133,328	3,520,935	31,654,263
Colorado	1,342,463	3,639,778	2,332,909	3,975,708	15,110,181	26,401,039	4,792,942	31,193,981
New Jersey	3,356,896	14,119,384	6,509,802	4	653,192	24,639,278	4,856,936	29,496,214
Nebraska	2,000,155	8,464,177	10,669,938	0	4,201,003	25,335,273	3,883,642	29,218,915
North Dakota	927,483	2,612,414	102,291	0	8,784,273	12,426,461	11,450,630	23,877,091
Wyoming	823,108	3,184,820	18,972	7,656,805	9,932,166	21,615,871	1,194,418	22,810,289
South Dakota	712,904	1,959,566	1,022,862	0	18,717,562	22,412,894	222,456	22,635,350
Puerto Rico	2,790,613	13,869,258	80,698	0	164,298	16,904,867	962,710	17,867,577
Delaware	711,730	9,035,552	1,126,665	0	937,936	11,811,883	3,912,136	15,724,019
Massachusetts	1,476,450	7,470,280	85,102	0	43,632	9,075,464	4,038,545	13,114,009
Connecticut	1,961,085	4,304,244	995,835	0	38,106	7,299,270	3,077,123	10,376,393
Maine	1,026,621	5,749,925	1,120,845	0	861,519	8,758,910	1,180,529	9,939,439
New Hampshire	286,265	6,038,710	127,644	0	103,787	6,556,406	479,899	7,036,305
Hawaii	213,956	3,351,325	2,057	3,849	33,634	3,604,821	8,018	3,612,839
Rhode Island	607,444	1,357,283	1,829	0	505	1,967,061	337,885	2,304,946
Virgin Islands	653,400	420,974	37,913	0	1,502	1,113,789	29,148	1,142,937
Vermont	75,523	113,646	152,219	0	1,005	342,393	155,305	497,698
District of Columbia	3,305	66,615	6	0	8,800	78,726	5	78,731
American Samoa	8,765	5,131	1	0	0	13,897	0	13,897
Guam	8,476	1,307	1,275	0	0	11,058	0	11,058
Northern Marianas	2,585	481	20	0	0	3,086	0	3,086
<b>Total</b>	<b>301,939,574</b>	<b>1,779,264,173</b>	<b>246,036,273</b>	<b>266,420,197</b>	<b>4,366,280,994</b>	<b>6,959,941,211</b>	<b>424,120,618</b>	<b>7,384,061,829</b>

\* Off-site releases do not include transfers to disposal sent to other TRI facilities that reported the amount as an on-site release.

# 1999 Toxics Release Inventory



**Table 11. TRI On-site Releases by State, 1998, All Industries (Ordered by Total On-site Releases)**

State	On-site Releases					Total On-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	
Nevada	1,880,409	2,494,976	241,540	1,404	1,314,400,502	1,319,018,831
Arizona	4,278,090	5,834,312	6,236	4	1,058,594,122	1,068,712,764
Utah	2,149,664	62,799,938	1,146,800	0	507,852,411	573,948,813
Alaska	983,390	1,967,500	97,777	29,024,256	274,958,784	307,031,707
Texas	43,674,122	77,209,813	31,824,971	93,189,637	52,388,888	298,287,431
Ohio	16,201,439	143,170,721	6,273,716	28,770,724	94,295,040	288,711,640
New Mexico	1,065,129	1,577,504	20,984	0	256,101,227	258,764,844
Louisiana	16,565,492	63,235,495	10,021,773	53,737,384	14,906,215	158,466,359
Pennsylvania	11,077,437	85,884,145	48,620,162	80,401	12,062,460	157,724,605
Illinois	14,188,130	77,309,646	7,153,814	250	49,019,503	147,671,343
North Carolina	8,472,934	109,452,636	8,152,623	29,100	19,289,228	145,396,521
Florida	7,327,276	85,371,487	2,303,352	27,473,107	14,949,335	137,424,557
Indiana	17,581,369	80,195,339	2,719,896	1,040,393	33,818,829	135,355,826
Tennessee	12,990,226	92,319,152	3,433,678	3,830,800	22,307,337	134,881,193
Missouri	6,682,434	36,785,897	5,047,350	0	85,976,602	134,492,283
Alabama	12,146,291	70,301,159	6,234,191	45,005	42,077,464	130,804,110
Montana	816,625	4,453,906	94,168	0	118,640,075	124,004,774
Georgia	6,517,261	88,696,444	7,128,519	0	13,293,650	115,635,874
Michigan	7,763,189	68,063,137	865,198	3,459,889	19,954,548	100,105,961
Idaho	1,966,278	4,330,766	5,583,720	0	86,962,568	98,843,332
Kentucky	9,110,868	67,173,934	3,162,721	8,613	17,920,255	97,376,391
South Carolina	6,939,036	51,368,275	4,571,466	0	33,491,403	96,370,180
West Virginia	4,004,486	71,707,342	7,800,464	38	11,680,198	95,192,528
Mississippi	7,756,413	37,096,764	14,058,487	6,892,506	7,497,765	73,301,935
Virginia	9,235,518	53,224,197	4,354,284	0	4,314,211	71,128,210
New York	4,768,194	33,837,327	11,595,014	250	18,449,392	68,650,177
Oregon	3,958,293	12,630,587	3,595,235	0	45,297,068	65,481,183
California	9,125,699	19,487,538	3,929,711	81,905	28,049,454	60,674,307
Wisconsin	3,955,280	35,078,793	5,627,278	0	3,288,985	47,950,336
Iowa	6,183,804	28,698,049	3,376,015	0	7,048,006	45,305,874
Maryland	1,289,581	31,778,235	2,553,054	45,000	2,142,319	37,808,189
Oklahoma	4,747,095	15,332,734	2,308,415	4,473,550	9,262,564	36,124,358
Arkansas	5,940,578	21,448,814	2,346,845	1,248,950	4,366,175	35,351,362
Kansas	4,321,670	20,156,451	846,966	1,350,665	8,108,450	34,784,202
Washington	4,011,924	19,260,270	3,126,509	0	4,254,733	30,653,436
Minnesota	3,274,723	13,766,020	1,424,458	0	9,668,127	28,133,328
Colorado	1,342,463	3,639,778	2,332,909	3,975,708	15,110,181	26,401,039
Nebraska	2,000,155	8,464,177	10,669,938	0	4,201,003	25,335,273
New Jersey	3,356,896	14,119,384	6,509,802	4	653,192	24,639,278
South Dakota	712,904	1,959,566	1,022,862	0	18,717,562	22,412,894
Wyoming	823,108	3,184,820	18,972	7,656,805	9,932,166	21,615,871
Puerto Rico	2,790,613	13,869,258	80,698	0	164,298	16,904,867
North Dakota	927,483	2,612,414	102,291	0	8,784,273	12,426,461
Delaware	711,730	9,035,552	1,126,665	0	937,936	11,811,883
Massachusetts	1,476,450	7,470,280	85,102	0	43,632	9,075,464
Maine	1,026,621	5,749,925	1,120,845	0	861,519	8,758,910
Connecticut	1,961,085	4,304,244	995,835	0	38,106	7,299,270
New Hampshire	286,265	6,038,710	127,644	0	103,787	6,556,406
Hawaii	213,956	3,351,325	2,057	3,849	33,634	3,604,821
Rhode Island	607,444	1,357,283	1,829	0	505	1,967,061
Virgin Islands	653,400	420,974	37,913	0	1,502	1,113,789
Vermont	75,523	113,646	152,219	0	1,005	342,393
District of Columbia	3,305	66,615	6	0	8,800	78,726
American Samoa	8,765	5,131	1	0	0	13,897
Guam	8,476	1,307	1,275	0	0	11,058
Northern Marianas	2,585	481	20	0	0	3,086
<b>Total</b>	<b>301,939,574</b>	<b>1,779,264,173</b>	<b>246,036,273</b>	<b>266,420,197</b>	<b>4,366,280,994</b>	<b>6,959,941,211</b>





# 1999 Toxics Release Inventory

**Table 12. TRI On-site and Off-site Releases by State, 1998, Original Industries (Ordered by Total Releases)\*, \*\***

State	On-site Releases					Total On-site Releases Pounds	Off-site Releases	Total On- and Off-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Release to Land Pounds		Transfers Off-site to Disposal Pounds	
Texas	43,207,900	69,375,543	31,778,531	86,733,986	20,865,887	251,961,847	18,913,988	270,875,835
Ohio	15,940,275	47,714,639	5,884,534	13,329,724	29,823,355	112,692,527	45,388,439	158,080,966
Pennsylvania	10,982,378	28,168,770	47,976,429	0	2,212,886	89,340,463	59,364,705	148,705,168
Louisiana	16,532,491	59,016,551	9,942,523	53,207,033	6,590,557	145,289,155	2,508,973	147,798,128
Indiana	17,456,609	35,785,359	2,404,763	1,039,913	16,126,198	72,812,842	50,179,241	122,992,083
Illinois	14,103,741	45,022,529	7,107,278	250	19,725,719	85,959,517	31,036,799	116,996,316
Utah	2,011,454	59,275,964	1,131,860	0	36,148,518	98,567,796	7,764,227	106,332,023
Tennessee	12,947,406	65,447,012	2,218,651	3,830,800	3,952,676	88,396,545	7,536,980	95,933,525
Michigan	7,671,138	34,058,611	663,531	3,459,889	2,136,002	47,989,171	35,699,812	83,688,983
Alabama	12,122,371	41,690,538	5,982,670	5	12,122,716	71,918,300	9,799,559	81,717,859
Florida	7,209,722	28,906,395	2,253,237	27,473,107	3,852,076	69,694,537	2,508,990	72,203,527
North Carolina	8,433,974	36,593,226	8,051,801	29,100	10,984,353	64,092,454	6,073,578	70,166,032
Georgia	6,497,828	41,435,186	6,990,610	0	2,157,128	57,080,752	10,293,005	67,373,757
Mississippi	7,741,881	27,803,272	14,053,739	6,892,506	5,469,235	61,960,633	1,342,442	63,303,075
South Carolina	6,863,515	36,989,382	4,536,925	0	2,126,720	50,516,542	10,246,532	60,763,074
Missouri	6,498,371	23,705,699	4,887,452	0	19,788,968	54,880,490	4,657,335	59,537,825
Virginia	9,202,139	35,677,135	4,075,626	0	1,506,176	50,461,076	8,095,654	58,556,730
Arizona	3,824,864	2,050,905	5,088	4	47,396,810	53,277,671	1,097,445	54,375,116
Arkansas	5,926,455	20,166,833	2,326,037	1,248,950	2,300,762	31,969,037	20,008,531	51,977,568
Montana	645,407	3,504,490	94,158	0	42,132,169	46,376,224	4,846,224	51,222,448
Wisconsin	3,932,941	21,330,227	5,601,370	0	1,594,443	32,458,981	13,629,981	46,088,962
California	8,586,501	18,596,551	3,907,815	81,905	2,278,965	33,451,737	10,271,496	43,723,233
Kentucky	9,060,580	22,318,054	1,273,833	8,613	4,070,280	36,731,360	6,422,808	43,154,168
Iowa	6,166,330	19,502,151	3,359,798	0	2,282,739	31,311,018	9,321,099	40,632,117
New York	4,647,944	17,411,238	11,421,392	250	210,258	33,691,082	6,081,096	39,772,178
Oregon	3,936,632	12,424,672	3,595,197	0	2,546,806	22,503,307	11,786,200	34,289,507
Washington	3,956,179	18,058,048	3,125,646	0	321,109	25,460,982	6,672,738	32,133,720
Kansas	4,278,789	15,189,728	839,431	1,350,665	1,693,571	23,352,184	3,185,580	26,537,764
West Virginia	3,566,271	8,775,024	7,429,677	20	43,557	19,814,549	6,468,764	26,283,313
Oklahoma	4,736,875	12,223,722	2,246,541	3,363,799	781,473	23,352,410	2,770,958	26,123,368
New Mexico	830,515	712,679	12,508	0	23,285,554	24,841,256	109,121	24,950,377
Nebraska	1,974,772	4,404,302	10,549,178	0	541,002	17,469,254	6,799,043	24,268,297
Idaho	1,947,440	4,298,222	5,575,796	0	10,145,212	21,966,670	263,382	22,230,052
New Jersey	3,161,213	6,319,121	6,472,040	4	341,292	16,293,670	4,414,340	20,708,010
Minnesota	3,266,595	12,701,620	1,407,071	0	287,772	17,663,058	2,854,671	20,517,729
Maryland	1,253,746	6,961,709	2,420,279	0	1,994,661	12,630,395	667,785	13,298,180
Maine	1,016,028	5,666,713	1,120,843	0	861,519	8,665,103	1,164,142	9,829,245
Wyoming	819,909	917,401	6,325	7,656,805	40,649	9,441,089	350,027	9,791,116
Delaware	706,238	3,540,093	1,066,925	0	347,357	5,660,613	3,731,250	9,391,863
Connecticut	1,887,800	2,933,635	995,751	0	38,106	5,855,292	2,174,175	8,029,467
Massachusetts	1,329,085	3,534,214	75,098	0	4,297	4,942,694	2,377,218	7,319,912
Puerto Rico	2,560,908	3,932,999	18,575	0	9,557	6,522,039	703,159	7,225,198
Colorado	1,168,523	1,813,205	2,327,413	0	78,414	5,387,555	1,100,518	6,488,073
Nevada	579,806	1,188,485	0	0	2,419,871	4,188,162	34,472	4,222,634
South Dakota	609,781	1,783,252	808,061	0	13,807	3,214,901	125,451	3,340,352
New Hampshire	286,217	2,012,075	127,644	0	82,087	2,508,023	438,995	2,947,018
North Dakota	906,886	1,367,942	43,280	0	2,506	2,320,614	148,217	2,468,831
Alaska	478,945	1,361,325	96,453	256	157	1,937,136	11,086	1,948,222
Rhode Island	596,911	864,029	1,468	0	505	1,462,913	319,725	1,782,638
Virgin Islands	653,120	362,894	37,903	0	1,502	1,055,419	29,138	1,084,557
Vermont	75,523	113,646	152,219	0	1,005	342,393	159,695	502,088
Hawaii	161,163	214,953	2,057	3,849	33,634	415,656	20,175	435,831
District of Columbia	2,700	0	6	0	8,800	11,506	5	11,511
American Samoa	8,750	0	0	0	0	8,750	0	8,750
<b>Total</b>	<b>294,971,535</b>	<b>975,221,968</b>	<b>238,483,036</b>	<b>209,711,433</b>	<b>343,781,378</b>	<b>2,062,169,350</b>	<b>441,968,969</b>	<b>2,504,138,319</b>

\* One facility, Phelps Dodge Miami Inc. in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1999 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.

\*\* This table includes all off-site releases reported, including off-site transfers to disposal sent to other facilities that reported that amount as an on-site release. Such off-site transfers are only excluded where the table presents amounts for all TRI facilities, for example on Table 1. For amounts of off-site releases which exclude transfers to disposal to other TRI facilities reporting that amount as an on-site release see the individual state fact sheets.

# 1999 Toxics Release Inventory



**Table 13. TRI On-site Releases by State, 1998, Original Industries (Ordered by Total On-site Releases)\***

State	On-site Releases					Total On-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	
Texas	43,207,900	69,375,543	31,778,531	86,733,986	20,865,887	251,961,847
Louisiana	16,532,491	59,016,551	9,942,523	53,207,033	6,590,557	145,289,155
Ohio	15,940,275	47,714,639	5,884,534	13,329,724	29,823,355	112,692,527
Utah	2,011,454	59,275,964	1,131,860	0	36,148,518	98,567,796
Pennsylvania	10,982,378	28,168,770	47,976,429	0	2,212,886	89,340,463
Tennessee	12,947,406	65,447,012	2,218,651	3,830,800	3,952,676	88,396,545
Illinois	14,103,741	45,022,529	7,107,278	250	19,725,719	85,959,517
Indiana	17,456,609	35,785,359	2,404,763	1,039,913	16,126,198	72,812,842
Alabama	12,122,371	41,690,538	5,982,670	5	12,122,716	71,918,300
Florida	7,209,722	28,906,395	2,253,237	27,473,107	3,852,076	69,694,537
North Carolina	8,433,974	36,593,226	8,051,801	29,100	10,984,353	64,092,454
Mississippi	7,741,881	27,803,272	14,053,739	6,892,506	5,469,235	61,960,633
Georgia	6,497,828	41,435,186	6,990,610	0	2,157,128	57,080,752
Missouri	6,498,371	23,705,699	4,887,452	0	19,788,968	54,880,490
Arizona	3,824,864	2,050,905	5,088	4	47,396,810	53,277,671
South Carolina	6,863,515	36,989,382	4,536,925	0	2,126,720	50,516,542
Virginia	9,202,139	35,677,135	4,075,626	0	1,506,176	50,461,076
Michigan	7,671,138	34,058,611	663,531	3,459,889	2,136,002	47,989,171
Montana	645,407	3,504,490	94,158	0	42,132,169	46,376,224
Kentucky	9,060,580	22,318,054	1,273,833	8,613	4,070,280	36,731,360
New York	4,647,944	17,411,238	11,421,392	250	210,258	33,691,082
California	8,586,501	18,596,551	3,907,815	81,905	2,278,965	33,451,737
Wisconsin	3,932,941	21,330,227	5,601,370	0	1,594,443	32,458,981
Arkansas	5,926,455	20,166,833	2,326,037	1,248,950	2,300,762	31,969,037
Iowa	6,166,330	19,502,151	3,359,798	0	2,282,739	31,311,018
Washington	3,956,179	18,058,048	3,125,646	0	321,109	25,460,982
New Mexico	830,515	712,679	12,508	0	23,285,554	24,841,256
Oklahoma	4,736,875	12,223,722	2,246,541	3,363,799	781,473	23,352,410
Kansas	4,278,789	15,189,728	839,431	1,350,665	1,693,571	23,352,184
Oregon	3,936,632	12,424,672	3,595,197	0	2,546,806	22,503,307
Idaho	1,947,440	4,298,222	5,575,796	0	10,145,212	21,966,670
West Virginia	3,566,271	8,775,024	7,429,677	20	43,557	19,814,549
Minnesota	3,266,595	12,701,620	1,407,071	0	287,772	17,663,058
Nebraska	1,974,772	4,404,302	10,549,178	0	541,002	17,469,254
New Jersey	3,161,213	6,319,121	6,472,040	4	341,292	16,293,670
Maryland	1,253,746	6,961,709	2,420,279	0	1,994,661	12,630,395
Wyoming	819,909	917,401	6,325	7,656,805	40,649	9,441,089
Maine	1,016,028	5,666,713	1,120,843	0	861,519	8,665,103
Puerto Rico	2,560,908	3,932,999	18,575	0	9,557	6,522,039
Connecticut	1,887,800	2,933,635	995,751	0	38,106	5,855,292
Delaware	706,238	3,540,093	1,066,925	0	347,357	5,660,613
Colorado	1,168,523	1,813,205	2,327,413	0	78,414	5,387,555
Massachusetts	1,329,085	3,534,214	75,098	0	4,297	4,942,694
Nevada	579,806	1,188,485	0	0	2,419,871	4,188,162
South Dakota	609,781	1,783,252	808,061	0	13,807	3,214,901
New Hampshire	286,217	2,012,075	127,644	0	82,087	2,508,023
North Dakota	906,886	1,367,942	43,280	0	2,506	2,320,614
Alaska	478,945	1,361,325	96,453	256	157	1,937,136
Rhode Island	596,911	864,029	1,468	0	505	1,462,913
Virgin Islands	653,120	362,894	37,903	0	1,502	1,055,419
Hawaii	161,163	214,953	2,057	3,849	33,634	415,656
Vermont	75,523	113,646	152,219	0	1,005	342,393
District of Columbia	2,700	0	6	0	8,800	11,506
American Samoa	8,750	0	0	0	0	8,750
<b>Total</b>	<b>294,971,535</b>	<b>975,221,968</b>	<b>238,483,036</b>	<b>209,711,433</b>	<b>343,781,378</b>	<b>2,062,169,350</b>

\* One facility, Phelps Dodge Miami Inc. in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1999 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.



# 1999 Toxics Release Inventory

**Table 14. TRI On-site and Off-site Releases by State, 1998, New Industries (Ordered by Total Releases)\*, \*\***

State	On-site Releases					Total On-site Releases Pounds	Off-site Releases	Total On- and Off-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds		Transfers Off-site to Disposal Pounds	
Nevada	1,300,603	1,306,491	241,540	1,404	1,311,980,631	1,314,830,669	309,459	1,315,140,128
Arizona	453,226	3,783,407	1,148	0	1,011,197,312	1,015,435,093	73,604	1,015,508,697
Utah	138,210	3,523,974	14,940	0	471,703,893	475,381,017	499,541	475,880,558
Alaska	504,445	606,175	1,324	29,024,000	274,958,627	305,094,571	351	305,094,922
New Mexico	234,614	864,825	8,476	0	232,815,673	233,923,588	5,547,140	239,470,728
Ohio	261,164	95,456,082	389,182	15,441,000	64,471,685	176,019,113	13,755,132	189,774,245
North Carolina	38,960	72,859,410	100,822	0	8,304,875	81,304,067	688,889	81,992,956
Missouri	184,063	13,080,198	159,898	0	66,187,634	79,611,793	4,223	79,616,016
Pennsylvania	95,059	57,715,375	643,733	80,401	9,849,574	68,384,142	10,804,992	79,189,134
Montana	171,218	949,416	10	0	76,507,906	77,628,550	246,350	77,874,900
West Virginia	438,215	62,932,318	370,787	18	11,636,641	75,377,979	1,959,041	77,337,020
Idaho	18,838	32,544	7,924	0	76,817,356	76,876,662	73	76,876,735
Indiana	124,760	44,409,980	315,133	480	17,692,631	62,542,984	12,588,776	75,131,760
Florida	117,554	56,465,092	50,115	0	11,097,259	67,730,020	2,548,777	70,278,797
Illinois	84,389	32,287,117	46,536	0	29,293,784	61,711,826	5,399,681	67,111,507
Kentucky	50,288	44,855,880	1,888,888	0	13,849,975	60,645,031	649,251	61,294,282
Alabama	23,920	28,610,621	251,521	45,000	29,954,748	58,885,810	532,763	59,418,573
Georgia	19,433	47,261,258	137,909	0	11,136,522	58,555,122	2,544	58,557,666
Texas	466,222	7,834,270	46,440	6,455,651	31,523,001	46,325,584	11,946,314	58,271,898
Michigan	92,051	34,004,526	201,667	0	17,818,546	52,116,790	5,761,637	57,878,427
Tennessee	42,820	26,872,140	1,215,027	0	18,354,661	46,484,648	577,205	47,061,853
South Carolina	75,521	14,378,893	34,541	0	31,364,683	45,853,638	289,460	46,143,098
Oregon	21,661	205,915	38	0	42,750,262	42,977,876	21,657	42,999,533
New York	120,250	16,426,089	173,622	0	18,239,134	34,959,095	555,836	35,514,931
California	539,198	890,987	21,896	0	25,770,489	27,222,570	385,720	27,608,290
Maryland	35,835	24,816,526	132,775	45,000	147,658	25,177,794	509,326	25,687,120
Colorado	173,940	1,826,573	5,496	3,975,708	15,031,767	21,013,484	4,393,283	25,406,767
North Dakota	20,597	1,244,472	59,011	0	8,781,767	10,105,847	11,302,469	21,408,316
Virginia	33,379	17,547,062	278,658	0	2,808,035	20,667,134	371,910	21,039,044
South Dakota	103,123	176,314	214,801	0	18,703,755	19,197,993	97,005	19,294,998
Wisconsin	22,339	13,748,566	25,908	0	1,694,542	15,491,355	2,297,025	17,788,380
Iowa	17,474	9,195,898	16,217	0	4,765,267	13,994,856	1,040,966	15,035,822
Oklahoma	10,220	3,109,012	61,874	1,109,751	8,481,091	12,771,948	1,760,195	14,532,143
Wyoming	3,199	2,267,419	12,647	0	9,891,517	12,174,782	1,169,392	13,344,174
Louisiana	33,001	4,218,944	79,250	530,351	8,315,658	13,177,204	154,129	13,331,333
Minnesota	8,128	1,064,400	17,387	0	9,380,355	10,470,270	1,156,994	11,627,264
Kansas	42,881	4,966,723	7,535	0	6,414,879	11,432,018	114,165	11,546,183
Mississippi	14,532	9,293,492	4,748	0	2,028,530	11,341,302	751	11,342,053
Puerto Rico	229,705	9,936,259	62,123	0	154,741	10,382,828	271,514	10,654,342
New Jersey	195,683	7,800,263	37,762	0	311,900	8,345,608	508,819	8,854,427
Nebraska	25,383	4,059,875	120,760	0	3,660,001	7,866,019	190,056	8,056,075
Washington	55,745	1,202,222	863	0	3,933,624	5,192,454	1,813,895	7,006,349
Delaware	5,492	5,495,459	59,740	0	590,579	6,151,270	264,462	6,415,732
Massachusetts	147,365	3,936,066	10,004	0	39,335	4,132,770	1,812,978	5,945,748
New Hampshire	48	4,026,635	0	0	21,700	4,048,383	49,870	4,098,253
Arkansas	14,123	1,281,981	20,808	0	2,065,413	3,382,325	434,503	3,816,828
Hawaii	52,793	3,136,372	0	0	0	3,189,165	4,750	3,193,915
Connecticut	73,285	1,370,609	84	0	0	1,443,978	1,162,485	2,606,463
Rhode Island	10,533	493,254	361	0	0	504,148	36,656	540,804
Maine	10,593	83,212	2	0	0	93,807	17,164	110,971
District of Columbia	605	66,615	0	0	0	67,220	0	67,220
Virgin Islands	280	58,080	10	0	0	58,370	35	58,405
Guam	8,476	1,307	1,275	0	0	11,058	0	11,058
American Samoa	15	5,131	1	0	0	5,147	0	5,147
Northern Marianas	2,585	481	20	0	0	3,086	0	3,086
Total	6,968,039	804,042,205	7,553,237	56,708,764	4,022,499,616	4,897,771,861	106,083,213	5,003,855,074

\* One facility, Phelps Dodge Miami Inc. in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1999 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.

\*\* This table includes all off-site releases reported, including off-site transfers to disposal sent to other facilities that reported that amount as on on-site release. Such off-site transfers are only excluded where the table presents amounts for all TRI facilities, for example on Table 1. For amounts of off-site releases which exclude transfers to disposal to other TRI facilities reporting that amount as an on-site release see the individual state fact sheets.

# 1999 Toxics Release Inventory



**Table 15. TRI On-site Releases by State, 1998, New Industries (Ordered by Total On-site Releases)\***

State	On-site Releases					Total On-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	
Nevada	1,300,603	1,306,491	241,540	1,404	1,311,980,631	1,314,830,669
Arizona	453,226	3,783,407	1,148	0	1,011,197,312	1,015,435,093
Utah	138,210	3,523,974	14,940	0	471,703,893	475,381,017
Alaska	504,445	606,175	1,324	29,024,000	274,958,627	305,094,571
New Mexico	234,614	864,825	8,476	0	232,815,673	233,923,588
Ohio	261,164	95,456,082	389,182	15,441,000	64,471,685	176,019,113
North Carolina	38,960	72,859,410	100,822	0	8,304,875	81,304,067
Missouri	184,063	13,080,198	159,898	0	66,187,634	79,611,793
Montana	171,218	949,416	10	0	76,507,906	77,628,550
Idaho	18,838	32,544	7,924	0	76,817,356	76,876,662
West Virginia	438,215	62,932,318	370,787	18	11,636,641	75,377,979
Pennsylvania	95,059	57,715,375	643,733	80,401	9,849,574	68,384,142
Florida	117,554	56,465,092	50,115	0	11,097,259	67,730,020
Indiana	124,760	44,409,980	315,133	480	17,692,631	62,542,984
Illinois	84,389	32,287,117	46,536	0	29,293,784	61,711,826
Kentucky	50,288	44,855,880	1,888,888	0	13,849,975	60,645,031
Alabama	23,920	28,610,621	251,521	45,000	29,954,748	58,885,810
Georgia	19,433	47,261,258	137,909	0	11,136,522	58,555,122
Michigan	92,051	34,004,526	201,667	0	17,818,546	52,116,790
Tennessee	42,820	26,872,140	1,215,027	0	18,354,661	46,484,648
Texas	466,222	7,834,270	46,440	6,455,651	31,523,001	46,325,584
South Carolina	75,521	14,378,893	34,541	0	31,364,683	45,853,638
Oregon	21,661	205,915	38	0	42,750,262	42,977,876
New York	120,250	16,426,089	173,622	0	18,239,134	34,959,095
California	539,198	890,987	21,896	0	25,770,489	27,222,570
Maryland	35,835	24,816,526	132,775	45,000	147,658	25,177,794
Colorado	173,940	1,826,573	5,496	3,975,708	15,031,767	21,013,484
Virginia	33,379	17,547,062	278,658	0	2,808,035	20,667,134
South Dakota	103,123	176,314	214,801	0	18,703,755	19,197,993
Wisconsin	22,339	13,748,566	25,908	0	1,694,542	15,491,355
Iowa	17,474	9,195,898	16,217	0	4,765,267	13,994,856
Louisiana	33,001	4,218,944	79,250	530,351	8,315,658	13,177,204
Oklahoma	10,220	3,109,012	61,874	1,109,751	8,481,091	12,771,948
Wyoming	3,199	2,267,419	12,647	0	9,891,517	12,174,782
Kansas	42,881	4,966,723	7,535	0	6,414,879	11,432,018
Mississippi	14,532	9,293,492	4,748	0	2,028,530	11,341,302
Minnesota	8,128	1,064,400	17,387	0	9,380,355	10,470,270
Puerto Rico	229,705	9,936,259	62,123	0	154,741	10,382,828
North Dakota	20,597	1,244,472	59,011	0	8,781,767	10,105,847
New Jersey	195,683	7,800,263	37,762	0	311,900	8,345,608
Nebraska	25,383	4,059,875	120,760	0	3,660,001	7,866,019
Delaware	5,492	5,495,459	59,740	0	590,579	6,151,270
Washington	55,745	1,202,222	863	0	3,933,624	5,192,454
Massachusetts	147,365	3,936,066	10,004	0	39,335	4,132,770
New Hampshire	48	4,026,635	0	0	21,700	4,048,383
Arkansas	14,123	1,281,981	20,808	0	2,065,413	3,382,325
Hawaii	52,793	3,136,372	0	0	0	3,189,165
Connecticut	73,285	1,370,609	84	0	0	1,443,978
Rhode Island	10,533	493,254	361	0	0	504,148
Maine	10,593	83,212	2	0	0	93,807
District of Columbia	605	66,615	0	0	0	67,220
Virgin Islands	280	58,080	10	0	0	58,370
Guam	8,476	1,307	1,275	0	0	11,058
American Samoa	15	5,131	1	0	0	5,147
Northern Marianas	2,585	481	20	0	0	3,086
<b>Total</b>	<b>6,968,039</b>	<b>804,042,205</b>	<b>7,553,237</b>	<b>56,708,764</b>	<b>4,022,499,616</b>	<b>4,897,771,861</b>

\* One facility, Phelps Dodge Miami Inc. in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1999 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.



# 1999 Toxics Release Inventory

**Table 16. TRI On-site and Off-site Releases by State, 1997 (Ordered by Total Releases)**

State	On-site Releases					Total On-site Releases Pounds	Off-site Releases	Total On- and Off-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds		Transfers Off-site to Disposal Pounds	
Texas	43,462,405	63,928,830	26,612,432	88,270,537	21,502,448	243,776,652	21,940,785	265,717,437
Ohio	17,461,164	49,521,830	6,230,691	11,584,640	27,574,103	112,372,428	48,705,125	161,077,553
Louisiana	15,339,896	58,731,518	10,694,256	56,218,547	6,790,703	147,774,920	2,561,974	150,336,894
Pennsylvania	12,775,120	28,549,473	41,500,522	0	667,699	83,492,814	63,637,090	147,129,904
Indiana	18,596,952	38,732,272	2,712,410	1,262,661	24,254,919	85,559,214	44,095,703	129,654,917
Illinois	14,577,832	52,034,978	5,094,830	3,350	23,090,324	94,801,314	32,136,131	126,937,445
Tennessee	15,122,729	67,167,096	2,597,239	9,327,267	4,995,257	99,209,588	8,749,745	107,959,333
Utah	2,040,499	63,618,890	1,230,027	0	27,246,098	94,135,514	9,791,157	103,926,671
Alabama	13,472,511	48,840,530	6,061,412	10	10,564,587	78,939,050	17,016,536	95,955,586
Michigan	8,171,813	37,723,139	902,700	5,596,859	2,645,112	55,039,623	32,171,413	87,211,036
North Carolina	9,971,944	43,086,307	7,120,800	29,100	10,078,512	70,286,663	8,034,638	78,321,301
Georgia	6,925,362	42,987,891	8,089,282	0	3,149,793	61,152,328	14,142,410	75,294,738
Florida	6,677,838	25,709,114	1,962,618	28,082,386	1,322,532	63,754,488	7,319,249	71,073,737
Mississippi	8,675,786	30,772,730	14,907,203	8,544,641	6,002,031	68,902,391	1,752,049	70,654,440
Missouri	7,709,181	26,164,153	5,154,064	0	20,138,599	59,165,997	4,895,937	64,061,934
South Carolina	7,138,626	34,790,152	4,502,950	0	2,180,301	48,612,029	13,810,107	62,422,136
Arkansas	6,376,543	19,871,274	2,650,934	1,522,912	3,878,880	34,300,543	26,913,001	61,213,544
Virginia	10,297,210	36,910,372	5,037,318	0	1,313,894	53,558,794	6,440,467	59,999,261
Kentucky	10,551,654	25,344,829	1,272,088	0	3,309,644	40,478,215	8,522,847	49,001,062
Wisconsin	4,533,016	21,645,873	4,700,851	0	1,678,435	32,558,175	14,181,847	46,740,022
California	10,135,985	20,166,602	4,317,555	414,781	1,820,400	36,855,323	8,237,586	45,092,909
Montana	691,368	3,888,562	97,172	0	37,719,659	42,396,761	1,225,051	43,621,812
New York	5,422,705	19,268,502	8,156,296	250	1,327,808	34,175,561	8,993,949	43,169,510
New Mexico	1,154,470	1,313,533	8,050	0	39,366,196	41,842,249	83,532	41,925,781
Iowa	5,324,060	19,321,409	2,768,345	0	1,764,058	29,177,872	5,490,078	34,667,950
Washington	4,264,844	17,382,610	2,331,394	0	338,644	24,317,492	7,425,198	31,742,690
Arizona	6,299,356	2,792,058	4,916	6	22,115,963	31,212,299	442,890	31,655,189
Oregon	3,666,213	12,964,105	3,949,309	0	2,908,879	23,488,506	6,590,831	30,079,337
Oklahoma	4,952,907	13,742,346	2,544,610	1,763,497	849,724	23,853,084	3,189,878	27,042,962
Kansas	4,840,350	15,319,655	761,310	996,103	1,055,165	22,972,583	4,012,482	26,985,065
West Virginia	3,782,636	10,611,960	6,460,033	0	71,656	20,926,285	4,140,656	25,066,941
New Jersey	3,462,558	6,262,077	6,701,108	4	952,454	17,378,201	4,741,011	22,119,212
Minnesota	3,268,549	13,812,885	1,304,044	0	250,841	18,636,319	2,548,549	21,184,868
Nebraska	2,266,418	5,170,814	2,335,832	0	593,079	10,366,143	9,550,487	19,916,630
Idaho	1,721,534	3,631,355	1,128,709	0	10,987,120	17,468,718	267,058	17,735,776
Maryland	1,434,265	6,752,602	2,082,618	1	2,559,014	12,828,500	1,188,402	14,016,902
Connecticut	2,363,418	3,411,801	1,118,331	0	39,779	6,933,329	3,557,078	10,490,407
Maine	1,064,917	5,614,551	1,048,378	0	380,233	8,108,079	1,820,567	9,928,646
Wyoming	880,429	1,351,796	7,485	6,820,755	214,771	9,275,236	7,802	9,283,038
Delaware	549,039	2,361,193	1,328,937	0	317,243	4,556,412	4,017,944	8,574,356
Puerto Rico	3,184,590	3,967,275	17,529	0	4,772	7,174,166	833,502	8,007,668
Massachusetts	2,011,399	3,776,046	72,003	0	32,153	5,891,601	1,355,266	7,246,867
Colorado	1,212,156	2,223,894	2,155,029	5	117,011	5,708,095	300,001	6,008,096
Alaska	516,879	3,762,997	334,183	430	1,948	4,616,437	1,507	4,617,944
Nevada	526,536	1,209,463	0	0	2,722,055	4,458,054	17,357	4,475,411
South Dakota	767,878	1,539,637	1,800,093	0	6,474	4,114,082	129,714	4,243,796
New Hampshire	290,992	1,977,246	115,150	0	216,025	2,599,413	275,482	2,874,895
North Dakota	402,898	1,544,065	439,714	0	2,463	2,389,140	33,285	2,422,425
Rhode Island	860,838	954,298	2,177	0	2,094	1,819,407	401,571	2,220,978
Virgin Islands	977,512	423,886	25,723	0	1,468	1,428,589	108	1,428,697
Vermont	71,633	130,056	191,222	0	262	393,173	379,200	772,373
Hawaii	207,891	202,092	2,119	25,750	6,188	444,040	8,365	452,405
American Samoa	7,000	0	0	0	0	7,000	0	7,000
District of Columbia	3,300	10	5	0	3,300	6,615	0	6,615
Guam	0	0	0	0	0	0	0	0
<b>Total</b>	<b>318,465,604</b>	<b>1,022,982,632</b>	<b>212,644,006</b>	<b>220,464,492</b>	<b>331,132,770</b>	<b>2,105,689,504</b>	<b>468,084,598</b>	<b>2,573,774,102</b>

# 1999 Toxics Release Inventory



**Table 17. TRI On-site by State, 1997 (Ordered by Total On-site Releases)**

State	On-site Releases					Total On-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	
Texas	43,462,405	63,928,830	26,612,432	88,270,537	21,502,448	243,776,652
Ohio	17,461,164	49,521,830	6,230,691	11,584,640	27,574,103	112,372,428
Louisiana	15,339,896	58,731,518	10,694,256	56,218,547	6,790,703	147,774,920
Pennsylvania	12,775,120	28,549,473	41,500,522	0	667,699	83,492,814
Indiana	18,596,952	38,732,272	2,712,410	1,262,661	24,254,919	85,559,214
Illinois	14,577,832	52,034,978	5,094,830	3,350	23,090,324	94,801,314
Tennessee	15,122,729	67,167,096	2,597,239	9,327,267	4,995,257	99,209,588
Utah	2,040,499	63,618,890	1,230,027	0	27,246,098	94,135,514
Alabama	13,472,511	48,840,530	6,061,412	10	10,564,587	78,939,050
Michigan	8,171,813	37,723,139	902,700	5,596,859	2,645,112	55,039,623
North Carolina	9,971,944	43,086,307	7,120,800	29,100	10,078,512	70,286,663
Georgia	6,925,362	42,987,891	8,089,282	0	3,149,793	61,152,328
Florida	6,677,838	25,709,114	1,962,618	28,082,386	1,322,532	63,754,488
Mississippi	8,675,786	30,772,730	14,907,203	8,544,641	6,002,031	68,902,391
Missouri	7,709,181	26,164,153	5,154,064	0	20,138,599	59,165,997
South Carolina	7,138,626	34,790,152	4,502,950	0	2,180,301	48,612,029
Arkansas	6,376,543	19,871,274	2,650,934	1,522,912	3,878,880	34,300,543
Virginia	10,297,210	36,910,372	5,037,318	0	1,313,894	53,558,794
Kentucky	10,551,654	25,344,829	1,272,088	0	3,309,644	40,478,215
Wisconsin	4,533,016	21,645,873	4,700,851	0	1,678,435	32,558,175
California	10,135,985	20,166,602	4,317,555	414,781	1,820,400	36,855,323
Montana	691,368	3,888,562	97,172	0	37,719,659	42,396,761
New York	5,422,705	19,268,502	8,156,296	250	1,327,808	34,175,561
New Mexico	1,154,470	1,313,533	8,050	0	39,366,196	41,842,249
Iowa	5,324,060	19,321,409	2,768,345	0	1,764,058	29,177,872
Washington	4,264,844	17,382,610	2,331,394	0	338,644	24,317,492
Arizona	6,299,356	2,792,058	4,916	6	22,115,963	31,212,299
Oregon	3,666,213	12,964,105	3,949,309	0	2,908,879	23,488,506
Oklahoma	4,952,907	13,742,346	2,544,610	1,763,497	849,724	23,853,084
Kansas	4,840,350	15,319,655	761,310	996,103	1,055,165	22,972,583
West Virginia	3,782,636	10,611,960	6,460,033	0	71,656	20,926,285
New Jersey	3,462,558	6,262,077	6,701,108	4	952,454	17,378,201
Minnesota	3,268,549	13,812,885	1,304,044	0	250,841	18,636,319
Nebraska	2,266,418	5,170,814	2,335,832	0	593,079	10,366,143
Idaho	1,721,534	3,631,355	1,128,709	0	10,987,120	17,468,718
Maryland	1,434,265	6,752,602	2,082,618	1	2,559,014	12,828,500
Connecticut	2,363,418	3,411,801	1,118,331	0	39,779	6,933,329
Maine	1,064,917	5,614,551	1,048,378	0	380,233	8,108,079
Wyoming	880,429	1,351,796	7,485	6,820,755	214,771	9,275,236
Delaware	549,039	2,361,193	1,328,937	0	317,243	4,556,412
Puerto Rico	3,184,590	3,967,275	17,529	0	4,772	7,174,166
Massachusetts	2,011,399	3,776,046	72,003	0	32,153	5,891,601
Colorado	1,212,156	2,223,894	2,155,029	5	117,011	5,708,095
Alaska	516,879	3,762,997	334,183	430	1,948	4,616,437
Nevada	526,536	1,209,463	0	0	2,722,055	4,458,054
South Dakota	767,878	1,539,637	1,800,093	0	6,474	4,114,082
New Hampshire	290,992	1,977,246	115,150	0	216,025	2,599,413
North Dakota	402,898	1,544,065	439,714	0	2,463	2,389,140
Rhode Island	860,838	954,298	2,177	0	2,094	1,819,407
Virgin Islands	977,512	423,886	25,723	0	1,468	1,428,589
Vermont	71,633	130,056	191,222	0	262	393,173
Hawaii	207,891	202,092	2,119	25,750	6,188	444,040
American Samoa	7,000	0	0	0	0	7,000
District of Columbia	3,300	10	5	0	3,300	6,615
Guam	0	0	0	0	0	0
<b>Total</b>	<b>318,465,604</b>	<b>1,022,982,632</b>	<b>212,644,006</b>	<b>220,464,492</b>	<b>331,132,770</b>	<b>2,105,689,504</b>





# 1999 Toxics Release Inventory

**Table 18. TRI On-site and Off-site Releases by State, 1996 (Ordered by Total Releases)**

State	On-site Releases						Off-site Releases	Total On- and Off-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	Total On-site Releases Pounds	Transfers Off-site to Disposal Pounds	
Texas	49,055,262	76,652,398	24,137,992	90,689,231	15,582,059	256,116,942	14,481,795	270,598,737
Louisiana	15,711,163	69,136,276	10,240,100	58,918,722	4,369,709	158,375,970	2,549,708	160,925,678
Ohio	20,478,707	50,624,231	6,243,241	13,680,825	29,664,096	120,691,100	38,438,042	159,129,142
Pennsylvania	14,878,638	28,130,515	25,039,947	0	1,249,571	69,298,671	52,552,509	121,851,180
Indiana	21,257,371	43,496,818	2,825,090	1,174,432	14,637,772	83,391,483	36,655,550	120,047,033
Tennessee	16,201,613	69,720,619	2,669,014	11,482,682	5,607,958	105,681,886	11,948,640	117,630,526
Illinois	16,521,409	52,979,368	5,411,956	755	23,151,039	98,064,527	18,490,280	116,554,807
Alabama	14,713,958	64,468,914	5,374,144	10	7,413,014	91,970,040	13,206,769	105,176,809
Michigan	9,824,442	40,286,963	1,096,619	6,617,818	3,707,755	61,533,597	33,831,908	95,365,505
Utah	2,204,868	66,828,630	1,334,406	0	12,508,365	82,876,269	5,227,157	88,103,426
North Carolina	11,457,099	50,810,546	7,185,225	0	9,413,073	78,865,943	7,758,817	86,624,760
Florida	6,682,027	25,846,548	1,838,011	23,591,627	1,551,199	59,509,412	10,283,839	69,793,251
Mississippi	10,234,529	30,721,417	12,589,792	6,533,131	5,589,533	65,668,402	2,439,169	68,107,571
Georgia	7,539,966	41,107,898	7,696,310	0	2,439,686	58,783,860	5,577,719	64,361,579
Missouri	8,563,994	27,335,451	6,393,338	0	16,799,439	59,092,222	4,254,141	63,346,363
Virginia	10,567,625	39,842,810	6,637,880	10	1,296,153	58,344,478	2,080,648	60,425,126
South Carolina	8,231,472	38,343,766	4,336,667	0	873,979	51,785,884	8,113,439	59,899,323
California	12,457,123	26,681,456	4,547,378	752,529	1,639,006	46,077,492	8,819,050	54,896,542
Kentucky	8,983,274	30,452,912	1,855,770	0	2,568,082	43,860,038	8,303,382	52,163,420
Montana	882,327	3,149,626	91,808	0	44,362,523	48,486,284	34,193	48,520,477
Arizona	6,097,620	3,107,970	4,878	5	37,802,863	47,013,336	546,944	47,560,280
Wisconsin	4,727,823	22,338,601	4,445,767	0	720,002	32,232,193	14,305,074	46,537,267
New Mexico	768,800	1,282,845	16,419	0	42,278,187	44,346,251	72,686	44,418,937
Arkansas	8,004,394	21,279,969	2,275,767	1,808,402	1,733,495	35,102,027	8,813,289	43,915,316
New York	6,136,966	20,819,163	8,027,076	500	1,150,608	36,134,313	5,754,432	41,888,745
Iowa	5,572,318	23,139,721	2,863,877	0	1,548,440	33,124,356	2,712,969	35,837,325
West Virginia	4,273,505	12,782,956	8,704,504	0	521,958	26,282,923	3,505,118	29,788,041
Oregon	4,441,070	13,304,919	3,585,769	0	2,460,887	23,792,645	5,878,696	29,671,341
Washington	4,834,458	18,606,505	2,580,866	0	139,278	26,161,107	2,612,913	28,774,020
Oklahoma	5,007,563	16,293,744	1,775,228	1,055,425	143,753	24,275,713	3,523,611	27,799,324
Kansas	5,693,277	14,708,434	591,703	1,049,098	997,332	23,039,844	3,934,344	26,974,188
Minnesota	3,293,378	16,590,472	831,863	0	83,177	20,798,890	2,073,047	22,871,937
New Jersey	3,859,299	6,299,459	6,159,269	6	619,831	16,937,864	3,352,425	20,290,289
Idaho	1,615,767	3,169,221	1,040,513	0	12,323,871	18,149,372	81,309	18,230,681
Nebraska	2,475,925	5,754,118	2,818,132	0	550,729	11,598,904	3,874,049	15,472,953
Maryland	1,697,682	6,879,547	1,942,214	0	1,824,269	12,343,712	818,285	13,161,997
Wyoming	950,184	2,051,530	9,406	6,438,555	189,404	9,639,079	31,277	9,670,356
Maine	1,061,155	6,384,298	606,830	0	192,923	8,245,206	1,401,482	9,646,688
Connecticut	2,749,981	4,332,263	1,034,755	0	60,411	8,177,410	1,362,390	9,539,800
Puerto Rico	3,793,042	4,365,451	225,787	0	7,595	8,391,875	659,914	9,051,789
Massachusetts	2,471,001	4,320,805	133,352	0	15,944	6,941,102	1,240,240	8,181,342
Delaware	723,339	2,719,145	1,395,328	0	42,459	4,880,271	2,964,461	7,844,732
Alaska	444,665	5,433,523	1,024,160	420	6,015	6,908,783	0	6,908,783
Colorado	1,129,689	2,423,092	2,084,531	0	102,981	5,740,293	432,547	6,172,840
Nevada	329,079	1,091,813	0	0	2,334,264	3,755,156	59,513	3,814,669
South Dakota	525,912	1,182,771	1,900,182	0	1,008	3,609,873	137,658	3,747,531
New Hampshire	482,095	1,858,808	105,158	0	188,345	2,634,406	345,500	2,979,906
Rhode Island	929,839	1,103,146	8,748	0	10,538	2,052,271	350,126	2,402,397
North Dakota	398,199	1,605,732	317,633	0	758	2,322,322	3,490	2,325,812
Virgin Islands	961,406	506,479	31,720	0	6,526	1,506,131	12	1,506,143
Vermont	105,501	202,948	125,014	0	1,601	435,064	273,658	708,722
Hawaii	318,432	178,076	3,265	33,209	3,290	536,272	3,995	540,267
American Samoa	10,500	0	0	0	0	10,500	0	10,500
District of Columbia	3,900	10	300	0	5,000	9,210	250	9,460
Guam	0	0	3,000	0	0	3,000	0	3,000
<b>Total</b>	<b>352,334,631</b>	<b>1,122,734,696</b>	<b>194,217,702</b>	<b>223,827,392</b>	<b>312,491,753</b>	<b>2,205,606,174</b>	<b>356,172,459</b>	<b>2,561,778,633</b>

# 1999 Toxics Release Inventory



**Table 19. TRI On-site Releases by State, 1996 (Ordered by Total On-site Releases)**

State	On-site Releases					Total On-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	
Texas	49,055,262	76,652,398	24,137,992	90,689,231	15,582,059	256,116,942
Louisiana	15,711,163	69,136,276	10,240,100	58,918,722	4,369,709	158,375,970
Ohio	20,478,707	50,624,231	6,243,241	13,680,825	29,664,096	120,691,100
Tennessee	16,201,613	69,720,619	2,669,014	11,482,682	5,607,958	105,681,886
Illinois	16,521,409	52,979,368	5,411,956	755	23,151,039	98,064,527
Alabama	14,713,958	64,468,914	5,374,144	10	7,413,014	91,970,040
Indiana	21,257,371	43,496,818	2,825,090	1,174,432	14,637,772	83,391,483
Utah	2,204,868	66,828,630	1,334,406	0	12,508,365	82,876,269
North Carolina	11,457,099	50,810,546	7,185,225	0	9,413,073	78,865,943
Pennsylvania	14,878,638	28,130,515	25,039,947	0	1,249,571	69,298,671
Mississippi	10,234,529	30,721,417	12,589,792	6,533,131	5,589,533	65,668,402
Michigan	9,824,442	40,286,963	1,096,619	6,617,818	3,707,755	61,533,597
Florida	6,682,027	25,846,548	1,838,011	23,591,627	1,551,199	59,509,412
Missouri	8,563,994	27,335,451	6,393,338	0	16,799,439	59,092,222
Georgia	7,539,966	41,107,898	7,696,310	0	2,439,686	58,783,860
Virginia	10,567,625	39,842,810	6,637,880	10	1,296,153	58,344,478
South Carolina	8,231,472	38,343,766	4,336,667	0	873,979	51,785,884
Montana	882,327	3,149,626	91,808	0	44,362,523	48,486,284
Arizona	6,097,620	3,107,970	4,878	5	37,802,863	47,013,336
California	12,457,123	26,681,456	4,547,378	752,529	1,639,006	46,077,492
New Mexico	768,800	1,282,845	16,419	0	42,278,187	44,346,251
Kentucky	8,983,274	30,452,912	1,855,770	0	2,568,082	43,860,038
New York	6,136,966	20,819,163	8,027,076	500	1,150,608	36,134,313
Arkansas	8,004,394	21,279,969	2,275,767	1,808,402	1,733,495	35,102,027
Iowa	5,572,318	23,139,721	2,863,877	0	1,548,440	33,124,356
Wisconsin	4,727,823	22,338,601	4,445,767	0	720,002	32,232,193
West Virginia	4,273,505	12,782,956	8,704,504	0	521,958	26,282,923
Washington	4,834,458	18,606,505	2,580,866	0	139,278	26,161,107
Oklahoma	5,007,563	16,293,744	1,775,228	1,055,425	143,753	24,275,713
Oregon	4,441,070	13,304,919	3,585,769	0	2,460,887	23,792,645
Kansas	5,693,277	14,708,434	591,703	1,049,098	997,332	23,039,844
Minnesota	3,293,378	16,590,472	831,863	0	83,177	20,798,890
Idaho	1,615,767	3,169,221	1,040,513	0	12,323,871	18,149,372
New Jersey	3,859,299	6,299,459	6,159,269	6	619,831	16,937,864
Maryland	1,697,682	6,879,547	1,942,214	0	1,824,269	12,343,712
Nebraska	2,475,925	5,754,118	2,818,132	0	550,729	11,598,904
Wyoming	950,184	2,051,530	9,406	6,438,555	189,404	9,639,079
Puerto Rico	3,793,042	4,365,451	225,787	0	7,595	8,391,875
Maine	1,061,155	6,384,298	606,830	0	192,923	8,245,206
Connecticut	2,749,981	4,332,263	1,034,755	0	60,411	8,177,410
Massachusetts	2,471,001	4,320,805	133,352	0	15,944	6,941,102
Alaska	444,665	5,433,523	1,024,160	420	6,015	6,908,783
Colorado	1,129,689	2,423,092	2,084,531	0	102,981	5,740,293
Delaware	723,339	2,719,145	1,395,328	0	42,459	4,880,271
Nevada	329,079	1,091,813	0	0	2,334,264	3,755,156
South Dakota	525,912	1,182,771	1,900,182	0	1,008	3,609,873
New Hampshire	482,095	1,858,808	105,158	0	188,345	2,634,406
North Dakota	398,199	1,605,732	317,633	0	758	2,322,322
Rhode Island	929,839	1,103,146	8,748	0	10,538	2,052,271
Virgin Islands	961,406	506,479	31,720	0	6,526	1,506,131
Hawaii	318,432	178,076	3,265	33,209	3,290	536,272
Vermont	105,501	202,948	125,014	0	1,601	435,064
American Samoa	10,500	0	0	0	0	10,500
District of Columbia	3,900	10	300	0	5,000	9,210
Guam	0	0	3,000	0	0	3,000
<b>Total</b>	<b>352,334,631</b>	<b>1,122,734,696</b>	<b>194,217,702</b>	<b>223,827,392</b>	<b>312,491,753</b>	<b>2,205,606,174</b>



# 1999 Toxics Release Inventory

**Table 20. TRI On-site and Off-site Releases by State, 1995 (Ordered by Total Releases)**

State	On-site Releases					Total On-site Releases Pounds	Off-site Releases	Total On- and Off-site Releases Pounds
	Fugitive or Nonpoint Air Emissions Pounds	Stack or Point Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds		Transfers Off-site to Disposal Pounds	
Texas	55,853,128	80,239,388	27,203,562	119,189,375	13,521,218	296,006,671	14,744,820	310,751,491
Louisiana	16,243,071	69,067,502	9,582,507	57,895,625	3,615,228	156,403,933	2,753,792	159,157,725
Ohio	20,115,946	54,744,996	5,894,362	14,469,718	27,651,613	122,876,635	32,034,674	154,911,309
Pennsylvania	18,410,596	30,053,347	22,910,036	0	1,488,345	72,862,324	59,095,566	131,957,890
Illinois	16,956,522	56,578,395	6,333,962	361	22,992,809	102,862,049	18,713,010	121,575,059
Tennessee	20,451,030	75,728,062	2,485,875	6,961,570	5,466,480	111,093,017	6,876,194	117,969,211
Alabama	14,722,108	76,444,130	4,686,749	16	7,392,062	103,245,065	12,687,402	115,932,467
Indiana	25,084,343	48,446,758	4,532,113	874,903	6,935,013	85,873,130	29,698,610	115,571,740
Michigan	12,011,770	45,421,950	918,613	9,556,827	4,046,810	71,955,970	31,730,758	103,686,728
North Carolina	13,223,476	55,100,961	7,543,242	0	8,015,404	83,883,083	3,985,274	87,868,357
Utah	2,724,846	66,550,177	1,119,763	0	8,613,491	79,008,277	901,256	79,909,533
Mississippi	12,536,601	32,659,519	11,597,519	6,392,825	4,297,378	67,483,874	1,852,743	69,336,617
Georgia	7,637,990	41,502,842	7,360,512	0	1,571,666	58,073,010	5,462,671	63,535,681
Missouri	10,863,175	28,594,559	4,314,851	0	14,552,083	58,324,668	3,779,844	62,104,512
Virginia	11,105,103	39,114,526	8,025,172	0	1,222,592	59,467,393	2,304,946	61,772,339
South Carolina	10,816,824	41,422,523	3,795,792	0	789,254	56,824,393	4,245,206	61,069,599
Florida	8,736,748	24,192,924	1,701,499	19,164,011	1,462,275	55,257,457	3,250,803	58,508,260
California	15,424,568	24,096,472	3,427,766	489,974	3,779,363	47,218,143	9,518,296	56,736,439
Kentucky	10,047,108	32,324,264	831,710	0	2,608,780	45,811,862	6,367,956	52,179,818
Wisconsin	5,135,262	23,951,789	4,493,343	0	939,455	34,519,849	13,318,982	47,838,831
New York	8,126,165	22,348,800	9,383,469	0	1,217,961	41,076,395	5,902,317	46,978,712
New Mexico	737,728	1,091,625	4,290	0	43,124,925	44,958,568	89,566	45,048,134
Montana	1,199,947	3,174,648	96,659	0	39,420,586	43,891,840	39,203	43,931,043
Arizona	2,810,203	3,417,177	4,859	14	33,677,397	39,909,650	548,518	40,458,168
Arkansas	8,144,643	23,004,165	1,690,008	2,637,068	1,444,004	36,919,888	3,052,663	39,972,551
Iowa	5,894,408	25,323,246	3,900,214	0	1,383,076	36,500,944	3,123,894	39,624,838
West Virginia	5,281,253	14,312,336	9,379,886	1,000	315,339	29,289,814	3,772,006	33,061,820
Oklahoma	5,064,363	18,753,507	2,309,381	1,397,375	688,327	28,212,953	3,591,312	31,804,265
Washington	4,389,472	20,354,881	2,836,139	0	137,356	27,717,848	1,908,766	29,626,614
Kansas	5,093,512	14,477,080	598,671	1,675,109	1,621,369	23,465,741	6,140,167	29,605,908
Oregon	4,221,194	14,614,675	2,966,585	0	1,647,519	23,449,973	5,172,554	28,622,527
Minnesota	3,822,855	18,110,947	1,350,211	1	525,641	23,809,655	1,680,940	25,490,595
New Jersey	5,337,546	7,793,345	4,838,499	5	730,990	18,700,385	3,528,807	22,229,192
Maryland	2,280,225	6,627,461	1,837,412	0	2,469,954	13,215,052	4,974,807	18,189,859
Nebraska	2,694,798	7,613,532	2,162,438	0	608,009	13,078,777	3,890,608	16,969,385
Idaho	868,209	3,783,854	858,251	0	10,518,255	16,028,569	41,757	16,070,326
Connecticut	2,970,182	5,119,473	2,221,703	0	95,110	10,406,468	1,861,355	12,267,823
Maine	1,189,227	7,665,723	602,267	0	307,595	9,764,812	1,744,441	11,509,253
Wyoming	970,716	1,871,667	8,984	8,197,366	223,357	11,272,090	7,919	11,280,009
Massachusetts	2,938,471	5,343,919	133,710	0	32,224	8,448,324	1,693,347	10,141,671
Puerto Rico	4,363,641	5,215,452	22,262	0	4,456	9,605,811	462,105	10,067,916
Delaware	969,870	3,321,291	1,394,989	0	28,682	5,714,832	2,832,228	8,547,060
Alaska	462,953	4,936,631	950,617	188	483,911	6,834,300	6,030	6,840,330
Colorado	1,269,824	2,914,514	937,356	0	72,314	5,194,008	159,110	5,353,118
South Dakota	696,304	1,283,950	2,001,487	0	100,098	4,081,839	103,409	4,185,248
Nevada	669,317	992,046	0	0	2,209,741	3,871,104	59,070	3,930,174
Rhode Island	1,241,691	1,573,794	48,491	0	40	2,864,016	545,020	3,409,036
North Dakota	471,377	2,061,596	374,864	0	1,275	2,909,112	23,813	2,932,925
New Hampshire	533,816	2,018,950	112,088	0	113,865	2,778,719	147,038	2,925,757
Virgin Islands	974,700	479,699	36,392	0	2,461	1,493,252	5	1,493,257
Vermont	215,730	331,262	91,764	0	3,838	642,594	113,606	756,200
Hawaii	265,289	199,273	3,510	24,306	545	492,923	163,769	656,692
District of Columbia	10,200	260	255	0	19,000	29,715	27,255	56,970
American Samoa	5,300	0	0	0	0	5,300	0	5,300
Guam	0	0	3,100	0	0	3,100	0	3,100
<b>Total</b>	<b>394,285,344</b>	<b>1,196,365,895</b>	<b>191,919,759</b>	<b>248,927,637</b>	<b>284,190,539</b>	<b>2,315,689,174</b>	<b>320,730,208</b>	<b>2,636,419,382</b>

# 1999 Toxics Release Inventory



**Table 21. TRI On-site Releases by State, 1995 (Ordered by Total On-site Releases)**

State	On-site Releases					Total On-site Pounds
	Fugitive or Nonpoint Air Pounds	Stack or Point Air Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	
Texas	55,853,128	80,239,388	27,203,562	119,189,375	13,521,218	296,006,671
Louisiana	16,243,071	69,067,502	9,582,507	57,895,625	3,615,228	156,403,933
Ohio	20,115,946	54,744,996	5,894,362	14,469,718	27,651,613	122,876,635
Tennessee	20,451,030	75,728,062	2,485,875	6,961,570	5,466,480	111,093,017
Alabama	14,722,108	76,444,130	4,686,749	16	7,392,062	103,245,065
Illinois	16,956,522	56,578,395	6,333,962	361	22,992,809	102,862,049
Indiana	25,084,343	48,446,758	4,532,113	874,903	6,935,013	85,873,130
North Carolina	13,223,476	55,100,961	7,543,242	0	8,015,404	83,883,083
Utah	2,724,846	66,550,177	1,119,763	0	8,613,491	79,008,277
Pennsylvania	18,410,596	30,053,347	22,910,036	0	1,488,345	72,862,324
Michigan	12,011,770	45,421,950	918,613	9,556,827	4,046,810	71,955,970
Mississippi	12,536,601	32,659,551	11,597,519	6,392,825	4,297,378	67,483,874
Virginia	11,105,103	39,114,526	8,025,172	0	1,222,592	59,467,393
Missouri	10,863,175	28,594,559	4,314,851	0	14,552,083	58,324,668
Georgia	7,637,990	41,502,842	7,360,512	0	1,571,666	58,073,010
South Carolina	10,816,824	41,422,523	3,795,792	0	789,254	56,824,393
Florida	8,736,748	24,192,924	1,701,499	19,164,011	1,462,275	55,257,457
California	15,424,568	24,096,472	3,427,766	489,974	3,779,363	47,218,143
Kentucky	10,047,108	32,324,264	831,710	0	2,608,780	45,811,862
New Mexico	737,728	1,091,625	4,290	0	43,124,925	44,958,568
Montana	1,199,947	3,174,648	96,659	0	39,420,586	43,891,840
New York	8,126,165	22,348,800	9,383,469	0	1,217,961	41,076,395
Arizona	2,810,203	3,417,177	4,859	14	33,677,397	39,909,650
Arkansas	8,144,643	23,004,165	1,690,008	2,637,068	1,444,004	36,919,888
Iowa	5,894,408	25,323,246	3,900,214	0	1,383,076	36,500,944
Wisconsin	5,135,262	23,951,789	4,493,343	0	939,455	34,519,849
West Virginia	5,281,253	14,312,336	9,379,886	1,000	315,339	29,289,814
Oklahoma	5,064,363	18,753,507	2,309,381	1,397,375	688,327	28,212,953
Washington	4,389,472	20,354,881	2,836,139	0	137,356	27,717,848
Minnesota	3,822,855	18,110,947	1,350,211	1	525,641	23,809,655
Kansas	5,093,512	14,477,080	598,671	1,675,109	1,621,369	23,465,741
Oregon	4,221,194	14,614,675	2,966,585	0	1,647,519	23,449,973
New Jersey	5,337,546	7,793,345	4,838,499	5	730,990	18,700,385
Idaho	868,209	3,783,854	858,251	0	10,518,255	16,028,569
Maryland	2,280,225	6,627,461	1,837,412	0	2,469,954	13,215,052
Nebraska	2,694,798	7,613,532	2,162,438	0	608,009	13,078,777
Wyoming	970,716	1,871,667	8,984	8,197,366	223,357	11,272,090
Connecticut	2,970,182	5,119,473	2,221,703	0	95,110	10,406,468
Maine	1,189,227	7,665,723	602,267	0	307,595	9,764,812
Puerto Rico	4,363,641	5,215,452	22,262	0	4,456	9,605,811
Massachusetts	2,938,471	5,343,919	133,710	0	32,224	8,448,324
Alaska	462,953	4,936,631	950,617	188	483,911	6,834,300
Delaware	969,870	3,321,291	1,394,989	0	28,682	5,714,832
Colorado	1,269,824	2,914,514	937,356	0	72,314	5,194,008
South Dakota	696,304	1,283,950	2,001,487	0	100,098	4,081,839
Nevada	669,317	992,046	0	0	2,209,741	3,871,104
North Dakota	471,377	2,061,596	374,864	0	1,275	2,909,112
Rhode Island	1,241,691	1,573,794	48,491	0	40	2,864,016
New Hampshire	533,816	2,018,950	112,088	0	113,865	2,778,719
Virgin Islands	974,700	479,699	36,392	0	2,461	1,493,252
Vermont	215,730	331,262	91,764	0	3,838	642,594
Hawaii	265,289	199,273	3,510	24,306	545	492,923
District of Columbia	10,200	260	255	0	19,000	29,715
American Samoa	5,300	0	0	0	0	5,300
Guam	0	0	3,100	0	0	3,100
<b>Total</b>	<b>394,285,344</b>	<b>1,196,365,895</b>	<b>191,919,759</b>	<b>248,927,637</b>	<b>284,190,539</b>	<b>2,315,689,174</b>



# 1999 Toxics Release Inventory

**Table 22. TRI On-site and Off-site Releases by State, 1995-1999 (Ordered by Total Releases 1999)**

State	Total On-site and Off-site Releases				
	1995 Pounds	1996 Pounds	1997 Pounds	1998* Pounds	1999* Pounds
Texas	310,751,491	270,598,737	265,717,437	270,875,835	260,518,331
Ohio	154,911,309	159,129,142	161,077,553	158,080,966	151,549,085
Pennsylvania	131,957,890	121,851,180	147,129,904	148,705,168	145,225,169
Louisiana	159,157,725	160,925,678	150,336,894	147,798,128	135,114,882
Indiana	115,571,740	120,047,033	129,654,917	122,992,083	134,591,753
Illinois	121,575,059	116,554,807	126,937,445	116,996,316	108,284,216
Tennessee	117,969,211	117,630,526	107,959,333	95,933,525	91,588,366
Utah	79,909,533	88,103,426	103,926,671	106,332,023	88,822,084
Alabama	115,932,467	105,176,809	95,955,586	81,717,859	78,761,665
Florida	58,508,260	69,793,251	71,073,737	72,203,527	77,375,527
Michigan	103,686,728	95,365,505	87,211,036	83,688,983	72,847,248
North Carolina	87,868,357	86,624,760	78,321,301	70,166,032	67,633,911
South Carolina	61,069,599	59,899,323	62,422,136	60,763,074	66,729,933
Georgia	63,535,681	64,361,579	75,294,738	67,373,757	66,498,555
Mississippi	69,336,617	68,107,571	70,654,440	63,303,075	62,480,264
Virginia	61,772,339	60,425,126	59,999,261	58,556,730	57,814,647
Missouri	62,104,512	63,346,363	64,061,934	59,537,825	56,852,850
Arkansas	39,972,551	43,915,316	61,213,544	51,977,568	51,846,843
Arizona	40,458,168	47,560,280	31,655,189	54,375,116	50,871,827
Montana	43,931,043	48,520,477	43,621,812	51,222,448	49,913,550
Kentucky	52,179,818	52,163,420	49,001,062	43,154,168	48,242,312
California	56,736,439	54,896,542	45,092,909	43,723,233	44,997,711
Wisconsin	47,838,831	46,537,267	46,740,022	46,088,962	41,896,992
Iowa	39,624,838	35,837,325	34,667,950	40,632,117	40,983,234
New York	46,978,712	41,888,745	43,169,510	39,772,178	36,524,163
Kansas	29,605,908	26,974,188	26,985,065	26,537,764	35,812,594
Oregon	28,622,527	29,671,341	30,079,337	34,289,507	30,982,214
Idaho	16,070,326	18,230,681	17,735,776	22,230,052	26,633,633
Washington	29,626,614	28,774,020	31,742,690	32,133,720	25,234,284
Nebraska	16,969,385	15,472,953	19,916,630	24,268,297	23,280,757
Oklahoma	31,804,265	27,799,324	27,042,962	26,123,368	23,158,260
West Virginia	33,061,820	29,788,041	25,066,941	26,283,313	21,913,735
New Jersey	22,229,192	20,790,289	22,119,212	20,708,010	21,872,605
New Mexico	45,048,134	44,418,937	41,925,781	24,950,377	20,463,178
Minnesota	25,490,595	22,871,937	21,184,868	20,517,729	20,313,715
Maryland	18,189,859	13,161,997	14,016,902	13,298,180	13,646,373
Wyoming	11,280,009	9,670,356	9,283,038	9,791,116	10,440,143
Maine	11,509,253	9,646,688	9,928,646	9,829,245	7,729,738
Delaware	8,547,060	7,844,732	8,574,356	9,391,863	7,712,706
Colorado	5,353,118	6,172,840	6,008,096	6,488,073	7,557,002
Connecticut	12,267,823	9,539,800	10,490,407	8,029,467	6,410,818
Puerto Rico	10,067,916	9,051,789	8,007,668	7,225,198	6,330,480
Massachusetts	10,141,671	8,181,342	7,246,867	7,319,912	5,630,725
Nevada	3,930,174	3,814,669	4,475,411	4,222,634	4,368,524
South Dakota	4,185,248	3,747,531	4,243,796	3,340,352	3,564,341
New Hampshire	2,925,757	2,979,906	2,874,895	2,947,018	3,123,368
North Dakota	2,932,925	2,325,812	2,422,425	2,468,831	2,598,203
Alaska	6,840,330	6,908,783	4,617,944	1,948,222	1,671,982
Rhode Island	3,409,036	2,402,397	2,220,978	1,782,638	1,313,328
Virgin Islands	1,493,257	1,506,143	1,428,697	1,084,557	699,499
Vermont	756,200	708,722	772,373	502,088	647,890
Hawaii	656,692	540,267	452,405	435,831	401,133
District of Columbia	56,970	9,460	6,615	11,511	18,096
American Samoa	5,300	10,500	7,000	8,750	0
Guam	3,100	3,000	0	0	0
<b>Total</b>	<b>2,636,419,382</b>	<b>2,561,778,633</b>	<b>2,573,774,102</b>	<b>2,504,138,319</b>	<b>2,421,494,442</b>

**Note:** Due to an EPA data entry error, one chemical reporting revision for 1999 by a facility, the US Army Letterkenny Depot in Chambersburg, PA, was not included in this table. At the time of publication, the facility had notified EPA that it anticipated revising total releases for manganese compounds from 5,584,900 pounds to below 500 pounds. Revisions by this facility of two other compounds are included in the State Fact Sheet tables but not included in the tables in the 1999 TRI Public Data Release report.

\* Includes amounts for original industries only for 1998 and 1999. One facility, Phelps Dodge Miami Inc. in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1999 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.

# 1999 Toxics Release Inventory



**Table 23. TRI Total On-site and Off-site Releases by State, 1988, 1995-1999 (Ordered by Total Releases 1999)**

State	Total On-site and Off-site Releases					
	1988 Pounds	1995 Pounds	1996 Pounds	1997 Pounds	1998* Pounds	1999* Pounds
Texas	322,069,999	209,388,862	186,162,474	179,344,898	172,559,760	168,173,379
Ohio	205,759,528	124,038,426	128,616,129	131,968,630	128,368,645	118,309,224
Indiana	184,479,357	94,180,274	101,052,809	111,797,136	107,118,997	114,616,740
Pennsylvania	136,215,446	97,709,263	86,963,102	96,003,785	90,274,266	87,250,916
Utah	123,806,952	69,454,490	77,710,508	96,495,301	99,567,605	82,735,070
Illinois	140,677,697	85,844,173	82,234,246	91,772,844	83,678,277	81,024,525
Louisiana	129,555,412	104,537,861	105,826,922	93,845,434	92,171,562	77,380,480
Tennessee	126,831,255	99,740,745	99,959,616	89,891,453	78,147,265	76,619,953
Michigan	141,131,755	90,390,731	81,897,253	75,121,228	73,612,306	63,825,249
Alabama	110,955,598	100,800,117	89,982,340	80,081,646	66,982,536	63,060,490
South Carolina	66,047,971	48,879,428	48,596,482	52,115,543	49,829,064	57,068,504
Arizona	66,277,785	38,292,760	45,851,675	30,598,219	53,526,592	50,223,750
Montana	35,625,165	42,644,621	47,219,566	42,565,595	50,413,720	48,799,520
Missouri	91,120,808	50,606,327	50,170,658	53,122,156	48,744,442	47,906,451
North Carolina	124,256,415	63,595,972	63,397,131	55,320,551	45,935,908	45,931,584
Georgia	85,795,053	42,841,825	42,990,217	53,201,392	46,850,094	44,664,556
Arkansas	40,997,458	26,470,849	31,506,869	50,167,882	40,280,948	40,434,883
Mississippi	59,653,411	46,518,682	47,124,418	46,422,072	40,792,253	39,847,592
Virginia	112,416,988	40,853,174	39,941,942	41,437,891	39,919,862	39,108,555
Kentucky	65,741,386	34,228,919	33,338,405	35,050,422	30,713,587	35,921,600
Wisconsin	62,263,716	34,789,499	33,116,659	33,946,512	33,862,831	31,855,405
Florida	33,072,117	28,566,757	34,224,127	31,714,335	30,907,743	31,742,283
California	110,272,489	37,514,102	35,548,235	27,904,570	27,326,968	28,054,984
Iowa	42,977,724	22,646,552	19,443,047	20,196,139	25,143,625	25,712,115
Oregon	21,644,797	22,238,345	23,544,751	23,775,377	28,118,111	25,505,749
New York	100,906,413	31,680,589	28,181,608	29,079,130	22,713,861	22,938,753
New Mexico	30,426,504	43,451,640	42,795,939	40,106,306	23,800,325	20,033,587
Kansas	30,432,853	17,791,085	17,462,706	18,883,404	17,352,930	19,836,589
Washington	30,598,855	22,675,236	22,086,164	24,644,573	24,346,232	17,033,033
Idaho	7,322,393	12,031,656	13,788,949	12,910,767	12,781,627	14,807,741
Minnesota	55,927,582	18,492,619	17,178,717	15,632,694	15,019,443	14,453,953
Oklahoma	30,501,419	16,174,347	15,313,913	15,364,567	14,085,971	13,494,957
New Jersey	48,351,318	14,777,650	12,272,554	13,505,898	11,843,271	13,061,088
West Virginia	39,661,385	19,930,084	17,618,660	15,251,906	16,298,577	12,032,238
Maryland	20,175,960	11,926,035	9,347,138	9,818,409	9,818,777	9,081,136
Nebraska	17,118,171	11,313,495	8,825,848	13,883,691	10,221,951	8,929,761
Puerto Rico	12,868,595	8,874,281	7,931,276	7,168,518	6,576,739	5,740,365
Delaware	8,683,520	5,668,981	4,879,172	5,856,396	5,862,958	5,304,849
Massachusetts	32,246,258	8,797,448	7,034,801	6,323,266	6,548,911	5,016,025
Maine	15,547,808	6,957,553	5,610,623	6,304,312	6,599,888	4,831,567
Connecticut	38,469,853	9,273,469	7,340,486	8,403,826	6,052,386	4,356,054
Nevada	2,357,318	3,387,483	3,331,244	4,048,209	3,689,730	4,018,689
Colorado	15,731,311	3,287,329	2,974,388	2,757,737	3,256,116	3,119,375
New Hampshire	13,975,968	2,251,591	2,260,437	2,370,165	2,322,755	2,445,978
Wyoming	1,978,542	1,250,046	1,239,057	1,256,191	1,288,457	1,594,138
Rhode Island	7,818,730	3,181,135	2,252,682	2,059,795	1,638,389	1,171,936
South Dakota	2,370,743	1,903,967	1,416,920	1,348,332	1,376,713	1,124,518
North Dakota	1,162,780	1,206,639	773,687	794,419	1,064,191	985,186
Virgin Islands	2,592,912	1,235,660	1,232,275	1,184,171	916,521	543,292
Vermont	1,661,971	562,610	353,789	346,203	208,259	301,222
Hawaii	847,805	562,284	448,355	343,620	306,151	267,212
Alaska	3,714,069	2,158,743	1,683,698	779,835	314,358	208,328
District of Columbia	750	56,970	9,460	6,615	11,511	18,096
American Samoa	0	0	0	0	0	0
Guam	0	3,100	3,000	0	0	0
<b>Total</b>	<b>3,213,098,068</b>	<b>1,937,636,479</b>	<b>1,892,067,127</b>	<b>1,904,293,966</b>	<b>1,813,198,965</b>	<b>1,732,523,223</b>

**Note:** Due to an EPA data entry error, one chemical reporting revision for 1999 by a facility, the US Army Letterkenny Depot in Chambersburg, PA, was not included in this table. At the time of publication, the facility had notified EPA that it anticipated revising total releases for manganese compounds from 5,584,900 pounds to below 500 pounds. Revisions by this facility of two other compounds are included in the State Fact Sheet tables but not included in the tables in the 1999 TRI Public Data Release report.

\* Includes amounts for original industries only for 1998 and 1999. One facility, Phelps Dodge Miami Inc. in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1999 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.



# STATE FACT SHEETS



# 1999 Toxics Release Inventory

# ALABAMA

## Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	66,586,985	62,664,853	129,251,838
Air Emissions	49,139,002	32,739,565	81,878,567
Surface Water Discharges	6,520,256	216,840	6,737,096
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	5	109,000	109,005
On-site Land Releases to RCRA Subtitle C Landfills	704,470	13,554,931	14,259,401
Other On-site Land Releases	10,223,252	16,044,517	26,267,769
Off-site Releases (Transfers Off-site to Disposal)*	8,545,600	331,081	8,876,681
<b>Total On- and Off-site Releases</b>	<b>75,132,585</b>	<b>62,995,934</b>	<b>138,128,519</b>
Recycled On-site	169,786,350	3,155,574	172,941,924
Recycled Off-site	61,390,656	313,610	61,704,266
Energy Recovery On-site	43,612,900	5,294,470	48,907,370
Energy Recovery Off-site	11,121,513	250,990	11,372,503
Treated On-site	261,272,116	11,026,960	272,299,076
Treated Off-site**	18,088,559	331,382	18,419,941
Quantity Released On- and Off-site***	70,142,216	59,538,635	129,680,851
<b>Total Production-related Waste Managed</b>	<b>635,414,310</b>	<b>79,911,621</b>	<b>715,325,931</b>
<b>Total Non-production-related Waste Managed</b>	<b>48,462</b>	<b>157</b>	<b>48,619</b>

## Transfers Off-site for Further Waste Management/Disposal

Recycling	49,499,634	427,691	49,927,325
Energy Recovery	12,355,584	250,990	12,606,574
Treatment	8,464,381	202,837	8,667,218
Publicly Owned Treatment Works (POTWs)	5,274,705	1	5,274,706
Metals and Metal Compounds*	23,399	0	23,399
Non-metal TRI Chemicals**	5,251,306	1	5,251,307
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	12,151,281	331,431	12,482,712
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>87,745,585</b>	<b>1,212,950</b>	<b>88,958,535</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

## For More Information . . .

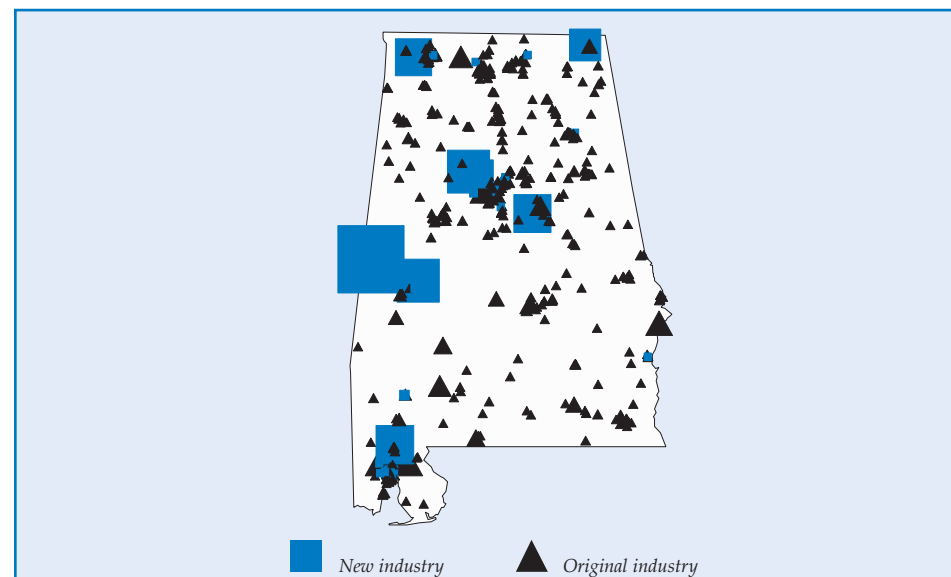
### State Contact:

Kirk Chandler  
(334) 260-2717  
Fax: (334) 272-8131  
E-mail: kfc@adem.state.al.us

### EPA Regional Contact:

Ezequiel Velez  
(404) 562-9191  
Fax: (404) 562-9163  
E-mail: velez.ezequiel@epa.gov

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Alabama. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

## State/TRI Data

Population	4,369,862
Square Miles	50,750
Total Facilities	539
Total Forms	2,158
Form As	328

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	10	17	16
Pounds	75,132,585	62,995,934	138,128,519
<b>National Rank for Total On-site Releases**</b>			
Rank	10	15	15
Pounds	66,586,985	62,664,853	129,251,838
<b>National Rank for Total Releases within State***</b>			
Rank	10	17	16
Pounds	78,775,459	63,047,079	141,822,538
<b>National Rank for Production-related Waste Managed</b>			
Rank	10	21	13
Pounds	635,414,310	79,911,621	715,325,931

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

# ALABAMA

## On and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
67-56-1	Methanol	12,484,144	430,053	0	117,839	209,890	13,241,926	5,076	55,014	154,876
--	Zinc compounds	121,575	203,365	0	4,519,662	4,103,368	8,947,970	3,317,354	745,302	3,359,552
75-15-0	Carbon disulfide	8,586,889	4,110	0	0	0	8,590,999	1	0	0
--	Manganese compounds	37,663	701,269	0	3,876,364	2,105,107	6,720,403	143,212	1,478,185	627,922
--	Nitrate compounds	41,664	4,473,594	0	111,451	662,074	5,288,783	6	72,270	589,804
7664-41-7	Ammonia	3,376,881	321,454	0	26,899	67,911	3,793,145	2	100	67,811
1330-20-7	Xylene (mixed isomers)	2,426,313	1,007	0	0	54,621	2,481,941	9,766	1,365	53,829
108-88-3	Toluene	2,308,140	2,408	0	0	88,589	2,399,137	2,425	81,493	10,264
7647-01-0	Hydrochloric acid	2,337,674	0	0	0	35,416	2,373,090	0	0	35,416
7439-96-5	Manganese	44,775	41	0	794,503	1,476,102	2,315,421	513	1,448,088	28,057

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

## On and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	24,041,200	0	0	0	0	24,041,200	0	0	0
--	Barium compounds	25,826	33,902	81,000	10,563,524	74,382	10,778,634	1,131	73,882	500
7664-93-9	Sulfuric acid	5,141,688	0	0	0	0	5,141,688	0	0	0
--	Zinc compounds	14,775	34,167	0	4,210,180	27,883	4,287,005	5,450	21,883	6,000
1336-36-3	Polychlorinated biphenyls (PCBs)	5	0	0	3,940,000	0	3,940,005	451	0	0
7664-39-3	Hydrogen fluoride	3,250,676	0	0	0	0	3,250,676	0	0	0
--	Lead compounds	3,642	1,880	0	2,937,571	29,600	2,972,693	33,980	250	29,350
--	Copper compounds	5,102	20,404	0	1,969,713	2,005	1,997,224	13,401	250	1,755
--	Manganese compounds	9,825	21,679	28,000	1,283,280	62,574	1,405,358	559	61,824	750
--	Chromium compounds	5,246	2,775	0	1,211,642	8,376	1,228,039	20,469	1,632	6,744

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

# ALABAMA

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pound			
Acordis Cellulosic Fibers Inc., Axis, Mobile	8,507,850	23,800	0	0	0	277,800	8,809,450	0	0
USS Fairfield Works, Fairfield, Jefferson	203,221	6,725	0	0	0	4,592,844	4,802,790	0	0
Mead Coated Board Inc., Cottonton, Russell	2,269,007	126,802	0	0	0	808,982	3,204,791	0	0
Champion Intl. Courtland Mill, Courtland, Lawrence	2,044,914	245,530	0	0	0	356,625	2,647,069	0	0
Alabama River Pulp Co. Inc., Perdue Hill, Monroe	1,773,610	179,505	0	0	0	554,620	2,507,735	0	0
Alliance Forest Prods. U.S., Coosa Pines, Talladega	1,933,040	36,600	0	0	0	179,920	2,149,560	0	0
International Paper, Prattville, Autauga	1,532,610	96,310	0	0	0	444,415	2,073,335	0	0
Solutia Inc. - Decatur AL, Decatur, Morgan	367,094	1,436,082	0	0	0	0	1,803,176	61,130	0
BP Amoco Chemicals, Decatur, Morgan	1,650,063	64,828	0	0	0	181	1,715,072	39,246	76,744
Weyerhaeuser USA Inc. Pine Hill Ops., Pine Hill, Wilcox	1,543,803	124,042	0	0	0	11,800	1,679,645	356,250	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	<u>Underground Injection</u>				<u>On-site Releases to Land</u>			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pound			
Chemical Waste Management, Emelle, Sumter	445	0	0	0	13,554,931	0	13,555,376	62,242	106,394
Alabama Power Co. - Plant Greene County, Forkland, Greene	7,641,711	4,972	0	0	0	395,603	8,042,286	0	0
Alabama Power Co. - Plant Gorgas, Parrish, Walker	5,856,031	38,823	0	0	0	2,114,057	8,008,911	0	0
Alabama Power Co. - Plant Barry, Bucks, Mobile	4,108,313	30,815	0	0	0	2,854,505	6,993,633	0	0
Alabama Power Co. - Plant Gaston, Wilsonville, Shelby	3,540,977	22,493	0	0	0	3,305,639	6,869,109	0	0
U.S. TVA Colbert Fossil Plant, Tuscumbia, Colbert	4,948,825	11,430	0	0	0	1,699,855	6,660,110	0	1,025
U.S. TVA Widows Creek Fossil Plant, Stevenson, Jackson	3,306,105	71,600	0	0	0	2,136,615	5,514,320	3,210	2,260
Alabama Power Co. - Plant Miller, Quinton, Jefferson	1,362,619	10,059	0	0	0	3,287,329	4,660,007	0	0
Mobile Energy Services Co. L.L.C., Mobile, Mobile	1,308,286	0	0	0	0	0	1,308,286	155,889	0
Charles R. Lowman Power Plant, Leroy, Washington	357,685	1,065	0	0	0	154,200	512,950	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## ALABAMA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
USS Fairfield Works, Fairfield, Jefferson	0	4,905,711	0	0	0	0	4,916,888	9,822,599	0
Corus Tuscaloosa, Tuscaloosa, Tuscaloosa	0	0	0	0	0	4,052,145	4,054,396	8,106,541	0
Mead Coated Board Inc., Cottonton, Russell	0	0	1,562,555	0	8,181,214	0	3,201,568	12,945,337	0
Champion Intl. Courtland Mill, Courtland, Lawrence	0	0	2,067,000	0	14,795,100	0	2,632,300	19,494,400	14
Alabama River Pulp Co. Inc., Perdue Hill, Monroe	0	0	0	0	21,377,100	0	2,509,510	23,886,610	1
Alliance Forest Prods. U.S., Coosa Pines, Talladega	241,000	0	0	0	12,286,600	0	2,150,500	14,678,100	0
International Paper, Prattville, Autauga	0	0	12,004,502	0	4,817,000	0	2,067,320	18,888,822	0
Weyerhaeuser USA Inc. Pine Hill Ops., Pine Hill, Wilcox	0	0	101,320	0	10,048,300	0	1,948,195	12,097,815	0
Solutia Inc. - Decatur AL, Decatur, Morgan	7,600,000	74,300	17,500	18,000	273,422	0	1,862,164	9,845,386	4
BP Amoco Chemicals, Decatur, Morgan	0	188,000	0	0	3,439,900	86,150	1,717,734	5,431,784	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Chemical Waste Management, Emelle, Sumter	0	4,171	0	0	0	323,801	10,176,623	10,504,595	0
Alabama Power Co. - Plant Greene County, Forkland, Greene	0	0	0	0	0	0	8,042,286	8,042,286	0
Alabama Power Co. - Plant Gorgas, Parrish, Walker	0	0	0	0	0	0	8,008,914	8,008,914	0
Alabama Power Co. - Plant Barry, Bucks, Mobile	0	0	0	0	0	0	6,993,633	6,993,633	0
Alabama Power Co. - Plant Gaston, Wilsonville, Shelby	0	0	0	0	0	0	6,869,110	6,869,110	0
U.S. TVA Colbert Fossil Plant, Tuscumbia, Colbert	0	0	0	0	774,000	0	6,671,020	7,445,020	0
U.S. TVA Widows Creek Fossil Plant, Stevenson, Jackson	0	171,000	0	0	8,403,000	0	5,490,820	14,064,820	0
Alabama Power Co. - Plant Miller, Quinton, Jefferson	0	0	0	0	0	0	4,660,007	4,660,007	0
Mobile Energy Services Co. L.L.C., Mobile, Mobile	0	0	5,294,470	0	0	0	1,575,769	6,870,239	1
Charles R. Lowman Power Plant, Leroy, Washington	0	0	0	0	1,839,000	0	512,950	2,351,950	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## ALASKA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	1,671,982	431,345,799	433,017,781
Air Emissions	1,577,023	1,045,319	2,622,342
Surface Water Discharges	94,126	2,096	96,222
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	256	34,946,000	34,946,256
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	577	395,352,384	395,352,961
Off-site Releases (Transfers Off-site to Disposal)*	0	5	5
<b>Total On- and Off-site Releases</b>	<b>1,671,982</b>	<b>431,345,804</b>	<b>433,017,786</b>
Recycled On-site	201,583	773,687	975,270
Recycled Off-site	1,600	49,921	51,521
Energy Recovery On-site	450,000	0	450,000
Energy Recovery Off-site	79	998	1,077
Treated On-site	1,598,431	50,858	1,649,289
Treated Off-site**	739	9,386	10,125
Quantity Released On- and Off-site***	1,595,467	426,498,573	428,094,040
<b>Total Production-related Waste Managed</b>	<b>3,847,899</b>	<b>427,383,423</b>	<b>431,231,322</b>
<b>Total Non-production-related Waste Managed</b>	<b>21,132</b>	<b>37</b>	<b>21,169</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	1,600	49,921	51,521
Energy Recovery	79	937	1,016
Treatment	657	119	776
Publicly Owned Treatment Works (POTWs)	1	10	11
Metals and Metal Compounds*	0	0	0
Non-metal TRI Chemicals**	1	10	11
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	0	5	5
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>2,337</b>	<b>50,992</b>	<b>53,329</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

Camille Stephens  
(907) 465-5200

Fax: (907) 465-5244

E-mail: [cstephen@envircon.state.ak.us](mailto:cstephen@envircon.state.ak.us)

#### EPA Regional Contact:

Christina Colt  
(206) 553-4016

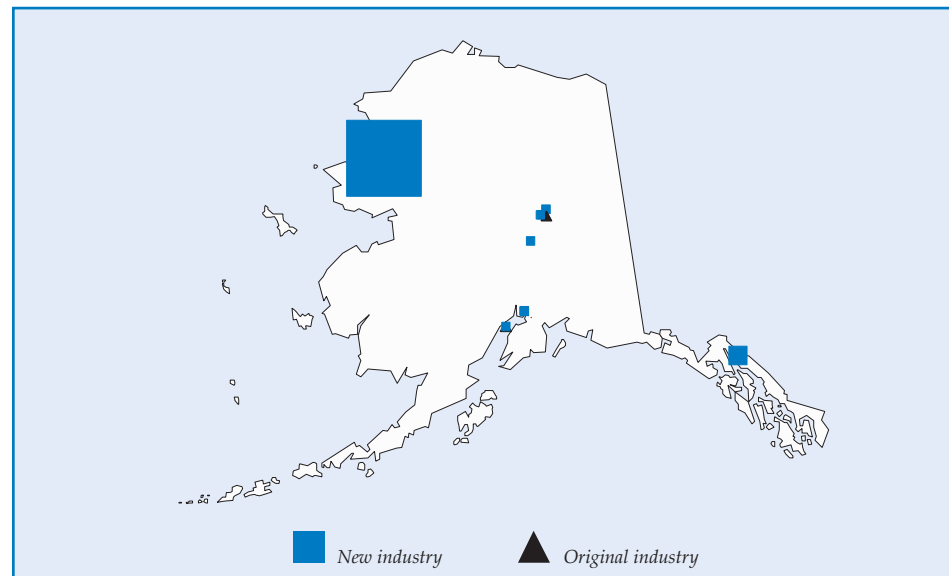
Fax: (206) 553-8509

E-mail: [colt.christina@epa.gov](mailto:colt.christina@epa.gov)

#### To obtain TRI data use

assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531

Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Alaska. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	619,500
Square Miles	570,374
Total Facilities	16
Total Forms	104
Form As	16

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	48	4	4
Pounds	1,671,982	431,345,804	433,017,786
<b>National Rank for Total On-site Releases**</b>			
Rank	48	4	4
Pounds	1,671,982	431,345,799	433,017,781
<b>National Rank for Total Releases within State***</b>			
Rank	48	4	4
Pounds	1,671,994	431,345,799	433,017,793
<b>National Rank for Production-related Waste Managed</b>			
Rank	51	4	21
Pounds	3,847,899	427,383,423	431,231,322

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.





# 1999 Toxics Release Inventory

## ALASKA

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-41-7	Ammonia	1,357,961	35,796	5	250	0	1,394,012	0	0	0
67-56-1	Methanol	76,000	360	1	0	0	76,361	0	0	0
--	Nitrate compounds	0	49,000	250	0	0	49,250	0	0	0
108-88-3	Toluene	43,088	10	0	48	0	43,146	0	0	0
1330-20-7	Xylene (mixed isomers)	33,427	10	0	87	0	33,524	0	0	0
71-43-2	Benzene	21,781	10	0	16	0	21,807	0	0	0
110-54-3	n-Hexane	20,344	10	0	38	0	20,392	0	0	0
110-82-7	Cyclohexane	11,682	10	0	38	0	11,730	0	0	0
107-21-1	Ethylene glycol	620	8,900	0	5	0	9,525	0	0	0
100-41-4	Ethylbenzene	7,008	10	0	17	0	7,035	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Zinc compounds	55,147	1,500	21,000,000	267,584,909	0	288,641,556	0	0	0
--	Lead compounds	9,993	184	7,900,000	110,400,570	5	118,310,752	0	0	5
--	Cadmium compounds	2,942	19	100,000	5,777,698	0	5,880,659	0	0	0
--	Copper compounds	414	51	1,200,000	3,455,994	0	4,656,459	0	0	0
--	Manganese compounds	73,874	204	1,100,000	2,937,477	0	4,111,555	0	0	0
--	Barium compounds	342,986	25	1,900,000	1,400,000	0	3,643,011	0	0	0
--	Arsenic compounds	492	28	880,000	490,000	0	1,370,520	0	0	0
--	Chromium compounds	90	7	0	1,369,655	0	1,369,752	0	0	0
--	Antimony compounds	16	20	610,000	620,000	0	1,230,036	0	0	0
--	Nickel compounds	51	50	41,000	715,988	0	757,089	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## ALASKA

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	<u>Underground Injection</u>			<u>On-site Releases to Land</u>				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Alaska Nitrogen Prods. L.L.C., Kenai, Kenai Peninsula	1,416,775	92,260	0	256	0	255	1,509,546	0	0
Tesoro Alaska Co. - Kenai Refy., Kenai, Kenai Peninsula	125,268	1,831	0	0	0	322	127,421	0	0
Williams Alaska Petroleum Inc., North Pole, Fairbanks North Star	34,480	35	0	0	0	0	34,515	0	0
Petro Star Inc., North Pole, Fairbanks North Star	500	0	0	0	0	0	500	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Red Dog Operations - Mine Facility, Kotzebue, Northwest Arctic	460,684	1,162	0	0	0	373,299,000	373,760,846	0	5
Kennecott Greens Creek Mining Co., Juneau, Juneau	17,977	780	0	34,946,000	0	20,633,000	55,597,757	0	0
Fort Knox Mine, Fairbanks, Fairbanks North Star	14,073	0	0	0	0	1,419,781	1,433,854	0	0
Healy Power Plant, Healy, Denali	502,375	0	0	0	0	0	502,375	0	0
Kenai Pipeline Co. - Kpl Facility, Kenai, Kenai Peninsula	31,327	0	0	0	0	14	31,341	0	0
Red Dog Ops. - Port Facility, Kivalina, Northwest Arctic	10,567	153	0	0	0	589	11,309	0	0
Tesoro Alaska Co. - Anchorage Terminal, Anchorage, Anchorage	4,372	0	0	0	0	0	4,372	0	0
Williams Alaska Petroleum Inc. Anchorage Terminal, Anchorage, Anchorage	1,874	0	0	0	0	0	1,874	0	0
Chevron Prods. Co. Anchorage Terminal, Anchorage, Anchorage	1,353	1	0	0	0	0	1,354	0	0
Great Western Chemical Co. - Fairbanks, Fairbanks, Fairbanks North Star	500	0	0	0	0	0	500	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## ALASKA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Alaska Nitrogen Prods. L.L.C., Kenai, Kenai Peninsula	0	1,600	450,000	0	1,565,200	0	1,434,660	3,451,460	20,000
Tesoro Alaska Co. - Kenai Refy., Kenai, Kenai Peninsula	165,693	0	0	0	31,433	69	127,083	324,278	310
Williams Alaska Petroleum Inc., North Pole, Fairbanks North Star	35,890	0	0	79	1,798	670	33,509	71,946	822
Petro Star Inc., North Pole, Fairbanks North Star	0	0	0	0	0	0	215	215	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Red Dog Operations - Mine Facility, Kotzebue, Northwest Arctic	248,477	0	0	0	0	0	369,230,000	369,478,477	0
Kennecott Greens Creek Mining Co., Juneau, Juneau	0	0	0	0	0	0	55,293,000	55,293,000	9
Fort Knox Mine, Fairbanks, Fairbanks North Star	0	49,921	0	0	41,631	9,330	1,422,114	1,522,996	9
Healy Power Plant, Healy, Denali	0	0	0	0	0	0	502,375	502,375	5
Kenai Pipeline Co. - Kpl Facility, Kenai, Kenai Peninsula	0	0	0	63	0	0	31,404	31,467	14
Red Dog Ops. - Port Facility, Kivalina, Northwest Arctic	512,800	0	0	0	0	0	11,764	524,564	0
Tesoro Alaska Co. - Anchorage Terminal, Anchorage, Anchorage	12,410	0	0	0	0	9	4,374	16,793	0
Williams Alaska Petroleum Inc. Anchorage Terminal, Anchorage, Anchorage	0	0	0	912	9,227	0	1,900	12,039	0
Chevron Prods. Co. Anchorage Terminal, Anchorage, Anchorage	0	0	0	0	0	0	1,319	1,319	0
Williams Alaska Petroleum Inc. Fairbanks Terminal, Fairbanks, Fairbanks North Star	0	0	0	23	0	47	140	210	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## AMERICAN SAMOA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	0	5,628	5,628
Air Emissions	0	5,627	5,627
Surface Water Discharges	0	1	1
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	0	0	0
Off-site Releases (Transfers Off-site to Disposal)*	0	0	0
<b>Total On- and Off-site Releases</b>	0	5,628	5,628
Recycled On-site	0	0	0
Recycled Off-site	0	0	0
Energy Recovery On-site	0	0	0
Energy Recovery Off-site	0	1,724	1,724
Treated On-site	0	0	0
Treated Off-site**	0	0	0
Quantity Released On- and Off-site***	0	5,630	5,630
<b>Total Production-related Waste Managed</b>	0	7,354	7,354
<b>Total Non-production-related Waste Managed</b>	0	183	183

### Transfers Off-site for Further Waste Management/Disposal

Recycling	0	0	0
Energy Recovery	0	3,009	3,009
Treatment	0	0	0
Publicly Owned Treatment Works (POTWs)	0	0	0
Metals and Metal Compounds*	0	0	0
Non-metal TRI Chemicals**	0	0	0
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	0	0	0
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	0	3,009	3,009

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

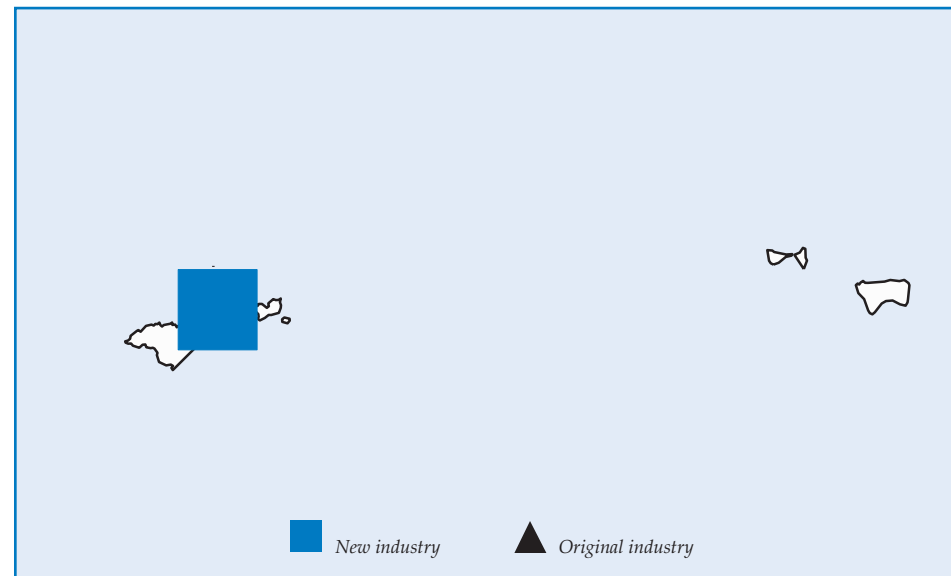
#### State Contact:

Togipa Tausaga  
International (684) 633-2304  
Fax: (684) 633-5801  
E-mail: asepa@samoatelco.com

#### EPA Regional Contact:

Adam Browning  
(415) 744-1121  
Fax: (415) 744-1073  
E-mail: browning.adam@epa.gov

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in American Samoa. All markers are proportionally-sized to represent the on-site releases at each facility within this territory.

### State/TRI Data

Population	63,781
Square Miles	77
Total Facilities	1
Total Forms	6
Form As	0

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	—	54	55
Pounds	0	5,628	5,628
<b>National Rank for Total On-site Releases**</b>			
Rank	—	54	55
Pounds	0	5,628	5,628
<b>National Rank for Total Releases within State***</b>			
Rank	—	54	55
Pounds	0	5,628	5,628
<b>National Rank for Production-related Waste Managed</b>			
Rank	—	54	55
Pounds	0	7,354	7,354

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## AMERICAN SAMOA

### On and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
108-88-3	Toluene	1,766*	1	0	0	0	1,767	0	0	0
110-54-3	n-Hexane	1,557	0	0	0	0	1,557	0	0	0
71-43-2	Benzene	1,166	0	0	0	0	1,166	0	0	0
1330-20-7	Xylene (mixed isomers)	665	0	0	0	0	665	0	0	0
100-41-4	Ethylbenzene	253	0	0	0	0	253	0	0	0
95-63-6	1,2,4-Trimethylbenzene	220	0	0	0	0	220	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

# AMERICAN SAMOA

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	<u>Underground Injection</u>					<u>On-site Releases to Land</u>		Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	<u>Underground Injection</u>					<u>On-site Releases to Land</u>		Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Utulei Petroleum Storage Terminal, Pago Pago Samoa, Eastern	5,627	1	0	0	0	0	5,628	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.





# 1999 Toxics Release Inventory

## AMERICAN SAMOA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Utulei Petroleum Storage Terminal, Pago Pago Samoa, Eastern	0	0	0	1,724	0	0	5,630	7,354	183

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## ARIZONA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	50,041,471	911,809,449	961,850,920
Air Emissions	3,175,737	2,631,512	5,807,249
Surface Water Discharges	5,452	1,398	6,850
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	15	0	15
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	46,860,267	909,176,539	956,036,806
Off-site Releases (Transfers Off-site to Disposal)*	740,658	738,490	1,479,148
<b>Total On- and Off-site Releases</b>	<b>50,782,129</b>	<b>912,547,939</b>	<b>963,330,068</b>
Recycled On-site	109,669,789	3,023,444	112,693,233
Recycled Off-site	38,880,138	2,001,355	40,881,493
Energy Recovery On-site	964,220	0	964,220
Energy Recovery Off-site	714,035	1,324,943	2,038,978
Treated On-site	6,854,784	4,680,209	11,534,993
Treated Off-site**	3,243,311	881,970	4,125,281
Quantity Released On- and Off-site***	50,951,351	1,019,858,186	1,070,809,537
<b>Total Production-related Waste Managed</b>	<b>211,277,628</b>	<b>1,031,770,107</b>	<b>1,243,047,735</b>
<b>Total Non-production-related Waste Managed</b>	<b>146</b>	<b>81</b>	<b>227</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	38,792,253	2,003,684	40,795,937
Energy Recovery	1,005,276	1,324,943	2,330,219
Treatment	985,726	748,605	1,734,331
Publicly Owned Treatment Works (POTWs)	2,584,265	20	2,584,285
Metals and Metal Compounds*	3,907	0	3,907
Non-metal TRI Chemicals**	2,580,358	20	2,580,378
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	826,449	738,905	1,565,354
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>44,193,969</b>	<b>4,816,157</b>	<b>49,010,126</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

Daniel Roe  
(602) 231-6346  
Fax: (602) 392-1519  
E-mail: roed@dem.state.az.us

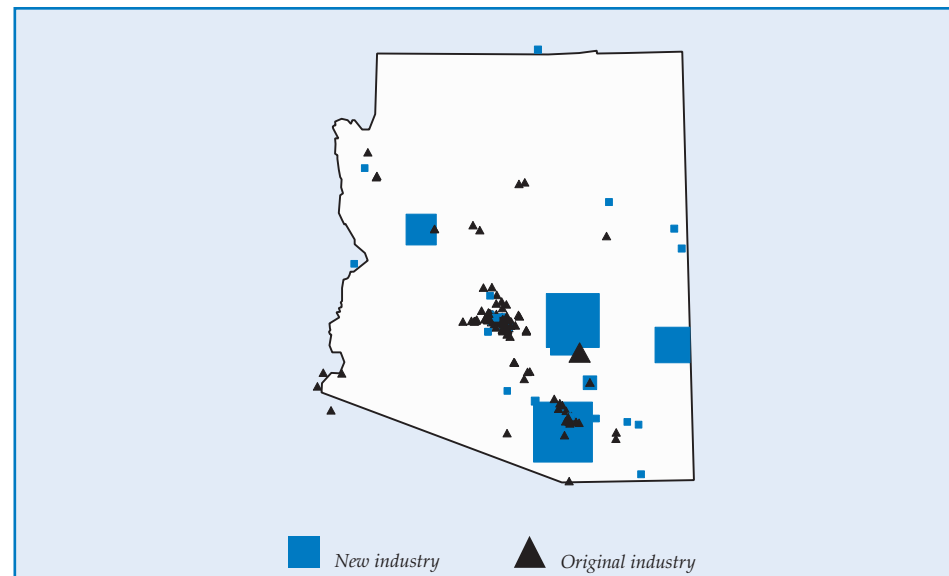
#### EPA Regional Contact:

Adam Browning  
(415) 744-1121  
Fax: (415) 392-1073

E-mail: browning.adam@epa.gov

#### To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Arizona. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	4,778,332
Square Miles	113,642
Total Facilities	237
Total Forms	809
Form As	128

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	18	3	3
Pounds	50,782,129	912,547,939	963,330,068
<b>National Rank for Total On-site Releases**</b>			
Rank	15	3	3
Pounds	50,041,471	911,809,449	961,850,920
<b>National Rank for Total Releases within State***</b>			
Rank	18	3	3
Pounds	51,011,762	911,958,385	962,970,147
<b>National Rank for Production-related Waste Managed</b>			
Rank	29	2	6
Pounds	211,277,628	1,031,770,107	1,243,047,735

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## ARIZONA

### On and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Copper compounds	707,420	3	0	24,630,772	39,395	25,377,590	19,054	12,750	26,645
--	Zinc compounds	11,139	0	0	18,745,962	32,855	18,789,956	42,877	795	32,060
--	Lead compounds	19,712	0	0	2,433,906	53,592	2,507,210	0	15,271	38,321
100-42-5	Styrene	776,503	0	0	0	5,939	782,442	0	5,939	0
67-56-1	Methanol	119,986	0	0	0	275,170	395,156	197	5	275,165
--	Glycol ethers	267,979	250	0	0	250	268,479	0	250	0
7440-47-3	Chromium	1,302	0	5	216,556	40,313	258,176	75	40,313	0
7439-96-5	Manganese	1,640	0	5	203,434	24,014	229,093	0	24,014	0
--	Arsenic compounds	11,738	0	0	190,060	8,515	210,313	19,003	765	7,750
110-54-3	n-Hexane	188,787	0	0	0	0	188,787	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Copper compounds	131,248	1,068	0	672,900,273	1,203	673,033,792	361	788	415
--	Barium compounds	18,297	0	0	92,950,293	2	92,968,592	3,800	0	2
--	Zinc compounds	16,667	223	0	85,659,760	131	85,676,781	471	55	76
--	Manganese compounds	4,393	70	0	28,508,379	332	28,513,174	210	332	0
--	Chromium compounds	3,311	5	0	6,436,388	15,108	6,454,812	53	10	15,098
--	Lead compounds	14,439	7	0	5,801,522	126	5,816,094	1,180	105	21
--	Arsenic compounds	4,437	5	0	5,683,794	262	5,688,498	0	262	0
--	Cobalt compounds	524	5	0	2,404,315	50	2,404,894	0	50	0
7439-96-5	Manganese	214	0	0	2,145,291	0	2,145,505	5	0	0
7440-47-3	Chromium	110	0	0	1,360,652	126,868	1,487,630	99	0	126,868

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## ARIZONA

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
ASARCO Inc. Ray Complex/Hayden Smelter & Concentrator, Hayden, Gila	170,336	0	0	0	0	46,192,440	46,362,776	325	0
BHP Copper N.A. San Manuel Smelting & Refining, San Manuel, Pinal	642,837	0	0	0	0	406,387	1,049,224	179	60,963
Sea Ray Boats Inc., Phoenix, Maricopa	272,900	0	0	0	0	0	272,900	1,000	0
Abitibi Consolidated Snowflake Div., Snowflake, Navajo	140,700	0	0	0	0	73,213	213,913	0	0
Imsamet of Arizona, Goodyear, Maricopa	3,700	0	0	0	0	180,000	183,700	0	0
Penn Racquet Sports, Phoenix, Maricopa	156,365	0	0	0	0	0	156,365	0	0
American Natl. Can Co., Phoenix, Maricopa	141,655	0	0	0	0	0	141,655	80	0
MAAX Spas Arizona Inc., Chandler, Maricopa	117,717	0	0	0	0	0	117,717	0	0
BFGoodrich-Aircraft Evacuation Sys., Phoenix, Maricopa	99,800	0	0	0	0	0	99,800	0	0
Apache Nitrogen Prods. Inc., Benson, Cochise	84,700	10	0	0	0	0	84,710	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
ASARCO Inc. Mission Complex, Sahuarita, Pima	9,402	0	0	0	0	233,637,340	233,646,742	0	0
Phelps Dodge Miami Inc., Claypool, Gila	529,000	0	0	0	0	206,592,000	207,121,000	760	0
Phelps Dodge Morenci Inc., Morenci, Greenlee	130,351	147	0	0	0	126,250,083	126,380,581	0	0
Phelps Dodge Bagdad Inc., Bagdad, Yavapai	6,698	25	0	0	0	105,514,832	105,521,555	0	0
ASARCO, Inc. Ray Complex/Ray Ops. Mine, Kearny, Pinal	10,942	282	0	0	0	105,219,562	105,230,786	0	0
Cyprus Sierrita Corp., Green Valley, Pima	19,510	10	0	0	0	85,593,868	85,613,388	0	0
BHP Copper N.A. San Manuel Mining, San Manuel, Pinal	82,626	10	0	0	0	30,825,389	30,908,025	1,124	0
Silver Bell Mining L.L.C., Marana, Pima	2,035	5	0	0	0	5,665,300	5,667,340	0	0
BHP Copper N.A. Pinto Valley Unit, Miami, Gila	30,190	0	0	0	0	3,326,500	3,356,690	33	0
Navajo Generating Station, Page, Coconino	295,186	0	0	0	0	2,168,575	2,463,761	0	100

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## ARIZONA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
ASARCO Inc. Ray Complex/Hayden Smelter & Concentrator, Hayden, Gila	83,892,628	7,038,035	0	0	0	0	46,362,902	137,293,565	0
BHP Copper N.A. San Manuel Smelting & Refining, San Manuel, Pinal	0	0	0	0	34,000	0	1,110,520	1,144,520	2
United Dairymen of Arizona, Tempe, Maricopa	0	0	0	0	341,970	0	461,347	803,317	0
Sea Ray Boats Inc., Phoenix, Maricopa	0	0	0	2,058	0	880	272,900	275,838	0
Abitibi Consolidated Snowflake Div., Snowflake, Navajo	0	0	0	0	202,116	0	213,948	416,064	0
Penn Racquet Sports, Phoenix, Maricopa	0	0	0	2,688	0	0	156,365	159,053	0
American Natl. Can Co., Phoenix, Maricopa	0	0	0	0	117,841	0	141,735	259,576	0
MAAX Spas Arizona Inc., Chandler, Maricopa	0	0	0	0	0	58	117,717	117,775	0
BFGoodrich-Aircraft Evacuation Sys., Phoenix, Maricopa	0	0	0	14,999	0	0	99,800	114,799	0
North Star Steel Arizona, Kingman, Mohave	0	1,461,036	0	0	0	0	91,470	1,552,506	1

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
ASARCO Inc. Mission Complex, Sahuarita, Pima	0	0	0	0	0	0	336,572,439	336,572,439	0
Phelps Dodge Miami Inc., Claypool, Gila	0	110,000	0	0	0	1,074	207,062,000	207,173,074	0
Phelps Dodge Morenci Inc., Morenci, Greenlee	0	0	0	0	0	410	131,145,570	131,145,980	48
Phelps Dodge Bagdad Inc., Bagdad, Yavapai	0	2	0	0	0	0	105,521,485	105,521,487	0
ASARCO, Inc. Ray Complex/Ray Ops. Mine, Kearny, Pinal	228,957	110,648	0	0	0	3,950	105,230,787	105,574,342	0
Cyprus Sierrita Corp., Green Valley, Pima	0	0	0	0	43,000	0	85,978,588	86,021,588	0
BHP Copper N.A. San Manuel Mining, San Manuel, Pinal	0	0	0	0	150,000	0	30,879,800	31,029,800	0
Silver Bell Mining L.L.C., Marana, Pima	0	0	0	0	2,970	0	5,667,098	5,670,068	0
BHP Copper N.A. Pinto Valley Unit, Miami, Gila	0	0	0	0	0	0	3,356,500	3,356,500	2
Navajo Generating Station, Page, Coconino	0	0	0	0	1,726,107	0	2,463,862	4,189,969	10

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## ARKANSAS

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
<b>On-site Releases</b>	32,875,416	3,828,542	36,703,958
Air Emissions	27,022,660	1,047,628	28,070,288
Surface Water Discharges	2,571,428	24,765	2,596,193
Underground Injection Class I Wells	666,738	0	666,738
Underground Injection Class II-V Wells	108,350	0	108,350
On-site Land Releases to RCRA Subtitle C Landfills	116,656	32,100	148,756
Other On-site Land Releases	2,389,584	2,724,049	5,113,633
<b>Off-site Releases (Transfers Off-site to Disposal)*</b>	4,716,770	104,748	4,821,518
<b>Total On- and Off-site Releases</b>	37,592,186	3,933,290	41,525,476
<b>Recycled On-site</b>	111,677,082	2,817,614	114,494,696
<b>Recycled Off-site</b>	53,576,282	389,348	53,965,630
<b>Energy Recovery On-site</b>	32,793,225	4,628,714	37,421,939
<b>Energy Recovery Off-site</b>	7,381,969	27,714,479	35,096,448
<b>Treated On-site</b>	86,906,289	19,607,784	106,514,073
<b>Treated Off-site**</b>	2,955,904	133,417	3,089,321
<b>Quantity Released On- and Off-site***</b>	53,957,981	5,301,431	59,259,412
<b>Total Production-related Waste Managed</b>	349,248,732	60,592,787	409,841,519
<b>Total Non-production-related Waste Managed</b>	1,177,284	23	1,177,307

### Transfers Off-site for Further Waste Management/Disposal

Recycling	52,777,730	389,573	53,167,303
Energy Recovery	7,716,524	28,400,806	36,117,330
Treatment	1,443,570	133,899	1,577,469
Publicly Owned Treatment Works (POTWs)	2,562,068	0	2,562,068
Metals and Metal Compounds*	14,853	0	14,853
Non-metal TRI Chemicals**	2,547,215	0	2,547,215
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	18,956,574	397,990	19,354,564
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	83,456,466	29,322,268	112,778,734

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

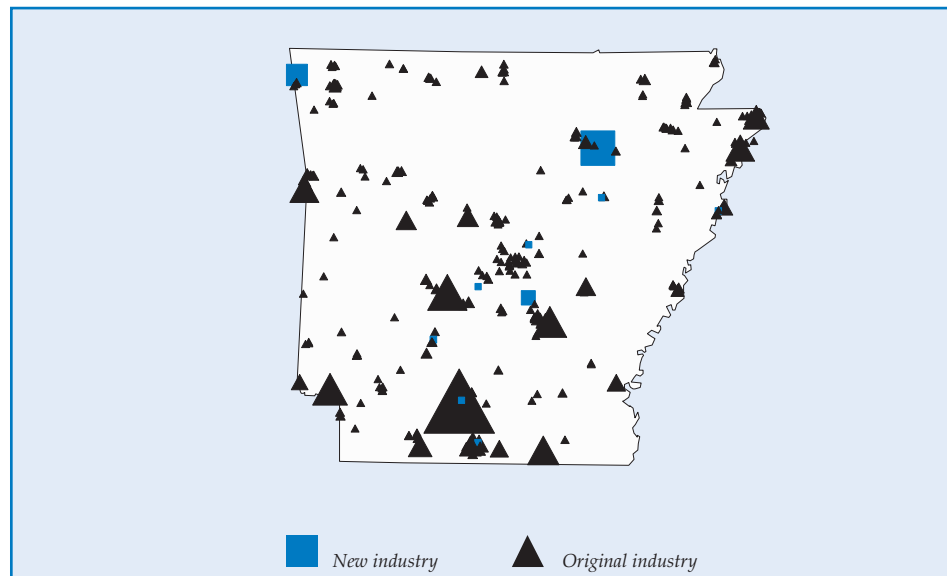
Bob Johns  
(501) 703-9789  
Fax: (501) 703-9754  
E-mail: robert.johns@adem.state.ar.us

#### EPA Regional Contact:

Warren Layne  
(214) 665-8013  
Fax: (214) 665-6762  
E-mail: layne.warren@epa.gov  
Morton E. Wakeland, Jr.  
(214) 665-8116

#### To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Arkansas. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	2,551,373
Square Miles	52,075
Total Facilities	403
Total Forms	1,496
Form As	202

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	23	43	33
Pounds	37,592,186	3,933,290	41,525,476
<b>National Rank for Total On-site Releases**</b>			
Rank	22	43	32
Pounds	32,875,416	3,828,542	36,703,958
<b>National Rank for Total Releases within State***</b>			
Rank	25	43	33
Pounds	35,210,472	4,622,758	39,833,230
<b>National Rank for Production-related Waste Managed</b>			
Rank	19	26	23
Pounds	349,248,732	60,592,787	409,841,519

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.





# 1999 Toxics Release Inventory

## ARKANSAS

### On and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Zinc compounds	81,831	45,911	10,441	214,637	13,983,732	14,336,552	133,535	341,669	13,642,063
67-56-1	Methanol	6,261,029	80,919	690,485	15,670	189,156	7,237,259	19	1,050	188,106
7664-41-7	Ammonia	5,289,128	135,662	0	8,590	11,042	5,444,422	75,581	11,042	0
--	Manganese compounds	45,310	480,866	0	741,244	1,455,435	2,722,855	625	203,498	1,251,937
75-15-0	Carbon disulfide	1,735,015	250	0	0	0	1,735,265	0	0	0
108-88-3	Toluene	1,649,495	114	47,919	0	111	1,697,639	33,571	0	111
--	Nitrate compounds	8,050	1,617,941	0	1,078	6,620	1,633,689	6,752	6,611	9
110-54-3	n-Hexane	1,513,029	0	0	0	6	1,513,035	0	5	1
--	Lead compounds	8,523	181	0	33,001	1,424,381	1,466,086	21,301	54,653	1,369,728
1330-20-7	Xylene (mixed isomers)	1,404,650	0	0	0	3,120	1,407,770	4,045	2,000	1,120

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Barium compounds	31,107	15,611	0	2,375,149	9,969	2,431,836	114,485	312	9,657
7664-39-3	Hydrogen fluoride	663,125	0	0	0	0	663,125	0	0	0
7647-01-0	Hydrochloric acid	235,050	0	0	0	0	235,050	8	0	0
--	Copper compounds	3,213	3,240	0	117,935	26,435	150,823	15,396	14	26,421
--	Zinc compounds	5,166	2,315	0	70,194	42,568	120,243	35,914	10	42,558
--	Manganese compounds	3,168	2,930	0	103,385	1,177	110,660	257,250	15	1,162
--	Lead compounds	2,509	14	0	0	81,311	83,834	4,482	0	81,311
7664-93-9	Sulfuric acid	74,853	0	0	0	0	74,853	0	0	0
--	Chromium compounds	1,626	141	0	37,809	33,070	72,646	39,503	6	33,064
1344-28-1	Aluminum oxide (fibrous forms)	1	0	0	0	58,035	58,036	7,946	0	58,035

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

# ARKANSAS

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
International Paper Camden Mill, Camden, Ouachita	3,676,738	34,943	0	0	0	25,092	3,736,773	0	0
U.S. Vanadium Corp., Hot Springs, Garland	1,238,800	32,010	0	0	0	603,130	1,873,940	0	0
Georgia-Pacific Corp. Ashdown Ops., Ashdown, Little River	1,046,376	349,741	0	0	0	206,052	1,602,169	0	0
International Paper Co., Pine Bluff, Jefferson	1,284,085	110,055	0	0	0	151,269	1,545,409	0	0
Georgia-Pacific Crossett Paper Ops., Crossett, Ashley	729,239	270,236	0	0	0	407,876	1,407,351	0	0
Whirlpool Corp., Fort Smith, Sebastian	1,261,276	0	0	0	0	0	1,261,276	1,156	0
Viskase Corp., Osceola, Mississippi	1,225,005	15,250	0	0	0	0	1,240,255	0	0
Terra Nitrogen Co. L.P., Blytheville, Mississippi	960,070	117,090	0	0	0	1,510	1,078,670	0	0
Lion Oil Co., El Dorado, Union	735,461	295,628	0	0	0	0	1,031,089	0	47,320
Albemarle Corp. South Plant, Magnolia, Columbia	508,453	29	72,664	67,350	0	291,469	939,965	3,950	4,779

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Entergy - Independence Steam Electric Station, Newark, Independence	489,437	4,117	0	0	0	1,577,735	2,071,289	0	0
Flint Creek Power Plant, Gentry, Benton	124,700	7,430	0	0	0	973,670	1,105,800	0	0
Entergy- White Bluff Generating Plant, Redfield, Jefferson	401,826	13,110	0	0	0	172,644	587,580	363	0
Reynolds Metals Co. Gum Springs Plant, Gum Springs, Clark	9	0	0	0	32,100	0	32,109	0	5
Williams West Memphis Terminal, West Memphis, Crittenden	16,017	0	0	0	0	0	16,017	0	0
Environmental Sys. Co., El Dorado, Union	11,983	108	0	0	0	0	12,091	82	397,540
Rineco, Benton, Saline	1,934	0	0	0	0	0	1,934	0	0
Van Waters & Rogers Inc., Jacksonville, Pulaski	1,702	0	0	0	0	0	1,702	0	0
Arkansas Electric Coop Corp. Bailey Generating Station, Augusta, Woodruff	10	0	0	0	0	0	10	0	0
Arkansas Electric Coop. Corp., McClellan Generating Station, Camden, Ouachita	10	0	0	0	0	0	10	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

# ARKANSAS

## Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Nucor-Yamato Steel Co., Blytheville, Mississippi	3,223,411	0	0	0	0	0	11,736,417	14,959,828	1,079,408
Alcoa Extruded Construction Prods. Magnolia Ops., Magnolia, Columbia	0	2,212	0	0	440,000	0	4,717,700	5,159,912	0
International Paper Camden Mill, Camden, Ouachita	0	0	216,245	0	2,613,596	0	3,735,996	6,565,837	0
Nucor Steel - Arkansas, Blytheville, Mississippi	1,293,000	17,696,100	0	0	400,000	0	3,111,000	22,500,100	0
U.S. Vanadium Corp., Hot Springs, Garland	812,000	0	0	0	0	0	1,873,960	2,685,960	0
Georgia-Pacific Corp. Ashdown Ops., Ashdown, Little River	15,000	0	4,001,500	4,500	24,938,020	0	1,591,964	30,550,984	0
International Paper Co., Pine Bluff, Jefferson	0	0	58,400	0	12,824,001	0	1,540,690	14,423,091	0
Georgia-Pacific Crossett Paper Ops., Crossett, Ashley	253,697	0	37,502	0	17,410,952	0	1,407,303	19,109,454	0
Whirlpool Corp., Fort Smith, Sebastian	670,000	41,100	0	59,220	7,600	9,706	1,259,776	2,047,402	0
Viskase Corp., Osceola, Mississippi	0	0	0	0	0	0	1,225,005	1,225,005	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

## Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Entergy - Independence Steam Electric Station, Newark, Independence	0	0	0	0	0	0	2,071,289	2,071,289	10
Entergy- White Bluff Generating Plant, Redfield, Jefferson	0	0	0	0	0	0	1,670,387	1,670,387	11
Flint Creek Power Plant, Gentry, Benton	0	0	0	0	219,000	0	1,101,000	1,320,000	0
Environmental Sys. Co., El Dorado, Union	2,802,061	389,348	4,628,714	790,558	19,178,784	133,411	406,991	28,329,867	0
Reynolds Metals Co. Gum Springs Plant, Gum Springs, Clark	0	0	0	0	210,000	6	32,100	242,106	0
Williams West Memphis Terminal, West Memphis, Crittenden	15,553	0	0	0	0	0	16,017	31,570	0
Rineco, Benton, Saline	0	0	0	26,923,921	0	0	1,934	26,925,855	0
Van Waters & Rogers Inc., Jacksonville, Pulaski	0	0	0	0	0	0	1,702	1,702	0
Arkansas Electric Coop. Corp., McClellan Generating Station, Camden, Ouachita	0	0	0	0	0	0	8	8	1
Arkansas Electric Coop Corp. Bailey Generating Station, Augusta, Woodruff	0	0	0	0	0	0	3	3	1

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## CALIFORNIA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	37,360,373	22,992,085	60,352,458
Air Emissions	29,343,914	1,485,026	30,828,940
Surface Water Discharges	5,020,783	3,152	5,023,935
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	34,972	0	34,972
On-site Land Releases to RCRA Subtitle C Landfills	121,835	18,179,362	18,301,197
Other On-site Land Releases	2,838,869	3,324,545	6,163,414
Off-site Releases (Transfers Off-site to Disposal)*	5,386,966	3,306,560	8,693,526
<b>Total On- and Off-site Releases</b>	<b>42,747,339</b>	<b>26,298,645</b>	<b>69,045,984</b>
Recycled On-site	38,316,764	35,335,204	73,651,968
Recycled Off-site	86,115,813	2,627,095	88,742,908
Energy Recovery On-site	30,599,409	59	30,599,468
Energy Recovery Off-site	9,137,864	27,650,612	36,788,476
Treated On-site	238,892,556	14,110,807	253,003,363
Treated Off-site**	26,639,188	24,078,431	50,717,619
Quantity Released On- and Off-site***	49,549,599	23,006,363	72,555,962
<b>Total Production-related Waste Managed</b>	<b>479,251,193</b>	<b>126,808,571</b>	<b>606,059,764</b>
<b>Total Non-production-related Waste Managed</b>	<b>404,950</b>	<b>4,268</b>	<b>409,218</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	79,922,181	1,888,943	81,811,124
Energy Recovery	8,463,469	27,520,518	35,983,987
Treatment	5,386,893	10,510,114	15,897,007
Publicly Owned Treatment Works (POTWs)	26,710,988	120,024	26,831,012
Metals and Metal Compounds*	87,447	862	88,309
Non-metal TRI Chemicals**	26,623,541	119,162	26,742,703
Other Off-site Transfers***	56,223	0	56,223
Off-site Transfers to Disposal (not including metals to POTWs)	7,549,891	3,527,353	11,077,244
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>128,089,645</b>	<b>43,566,952</b>	<b>171,656,597</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

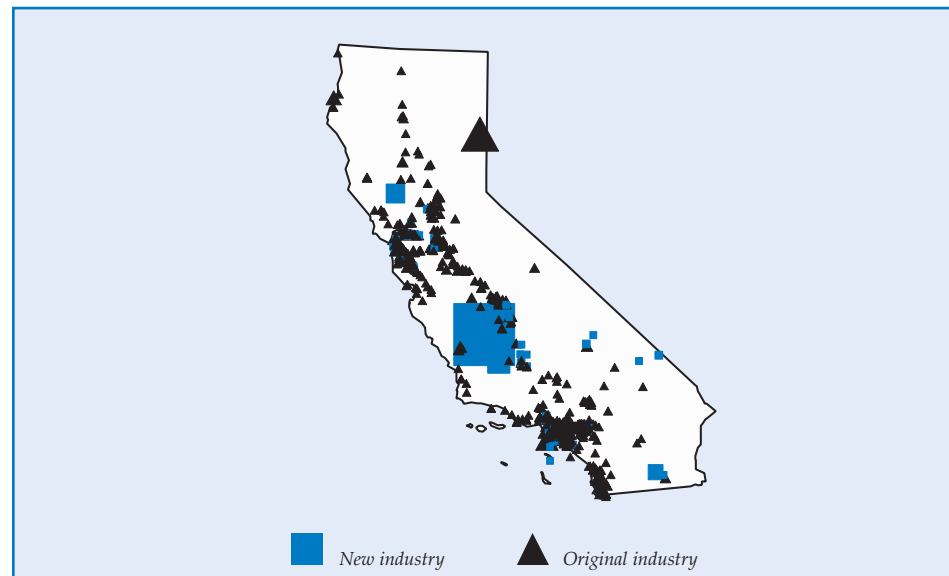
California EPA  
OEIM  
P.O. Box 806  
Sacramento, CA 95812-0806

#### EPA Regional Contact:

Adam Browning  
(415) 744-1121  
Fax: (415) 744-1073  
E-mail: browning.adam@epa.gov

#### To obtain TRI data use

assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of California. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	33,145,121
Square Miles	155,973
Total Facilities	1,406
Total Forms	4,469
Form As	651

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	21	25	27
Pounds	42,747,339	26,298,645	69,045,984
<b>National Rank for Total On-site Releases**</b>			
Rank	20	26	28
Pounds	37,360,373	22,992,085	60,352,458
<b>National Rank for Total Releases within State***</b>			
Rank	21	26	28
Pounds	41,862,897	24,494,532	66,357,429
<b>National Rank for Production-related Waste Managed</b>			
Rank	16	12	19
Pounds	479,251,193	126,808,571	606,059,764

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## CALIFORNIA

### On and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-41-7	Ammonia	7,591,474	256,660	19,500	470,331	11,664	8,349,629	0	5,114	7,550
--	Nitrate compounds	4,904	3,482,277	0	900,168	203,443	4,590,792	596	82,559	120,884
7429-90-5	Aluminum (fume or dust)	4,127,349	260	0	164,810	11,430	4,303,849	0	6,082	5,598
67-56-1	Methanol	2,236,217	1,132,782	4,100	8	18,726	3,391,833	5	18,175	1,323
100-42-5	Styrene	2,157,208	0	0	3	24,250	2,181,461	0	3,207	21,043
7440-50-8	Copper	1,074,019	733	0	17	863,201	1,937,970	257	252,472	624,387
--	Glycol ethers	1,322,225	0	0	0	60,238	1,382,463	0	56,830	3,408
7697-37-2	Nitric acid	75,112	5	0	126,893	1,040,604	1,242,614	847	1,041,601	0
--	Arsenic compounds	32	0	0	639,475	595,436	1,234,943	6,958	742,593	11,250
108-88-3	Toluene	998,536	534	500	1,360	18,051	1,018,981	750	13,797	4,526

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
1344-28-1	Aluminum oxide (fibrous forms)	143	0	0	3,932,266	67,900	4,000,309	0	6	67,894
1332-21-4	Asbestos (friable)	5	0	0	3,242,237	0	3,242,242	0	0	0
7664-41-7	Ammonia	547,294	323	0	2,212,654	317	2,760,588	0	352	55
--	Lead compounds	578	0	0	1,937,640	508	1,938,726	256	750	255
7440-39-3	Barium	2,917	0	0	990,526	266,658	1,260,101	0	26,760	266,623
--	Zinc compounds	1,469	45	0	1,129,573	55,232	1,186,319	289	54,477	755
--	Arsenic compounds	0	0	0	1,065,537	0	1,065,537	15	0	0
--	Copper compounds	2,743	0	0	1,030,959	26,627	1,060,329	101	2,802	25,616
7439-92-1	Lead	832	0	0	691,449	281,368	973,649	0	28,987	281,171
7440-38-2	Arsenic	803	0	0	725,715	215,444	941,962	0	116,599	116,847

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

# CALIFORNIA

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
U.S. Army Sierra Army Depot, Herlong, Lassen	5,390,239	0	0	0	0	0	5,390,239	0	0
Chevron USA Prods. Co., El Segundo, Los Angeles	459,545	2,135,195	0	0	0	4,070	2,598,810	104,865	1,740
Mobil Torrance Refy., Torrance, Los Angeles	1,901,194	54	0	0	0	0	1,901,248	106,088	41
Louisiana-Pacific Corp. Samoa Pulp Mill, Samoa, Humboldt	152,155	1,129,530	0	0	0	0	1,281,685	0	0
Chevron Prods. Co. Richmond Refy., Richmond, Contra Costa	675,534	471,627	0	0	0	0	1,147,161	121,000	1,543
Tosco San Francisco Area Refy. at Avon, Martinez, Contra Costa	1,053,955	39,325	0	0	0	5	1,093,285	12,105	2,300
ExxonMobil Refining & Supply Benicia Refy., Benicia, Solano	610,742	451,332	0	0	0	0	1,062,074	5,843	8,171
Tosco Refining Co. Los Angeles Refy. Wilmington Plant, Wilmington, Los Angeles	767,511	0	0	0	0	0	767,511	669	10,697
Carpenter Co., Lathrop, San Joaquin	706,555	0	0	0	0	0	706,555	0	0
American Xtal Tech. Inc., Fremont, Alameda	42,420	0	0	0	120,475	519,000	681,895	640,525	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Chemical Waste Management Inc., Kettleman City, Kings	10,456	0	0	0	12,735,351	0	12,745,807	1,010	5,045
Safety-Kleen (Buttonwillow) Inc., Buttonwillow, Kern	1,051	0	0	0	3,541,742	93,562	3,636,355	0	0
Mclaughlin Mine, Lower Lake, Lake	23,940	0	0	0	0	2,771,692	2,795,632	0	0
Safety-Kleen (Westmorland) Inc., Westmorland, Imperial	192	0	0	0	1,901,808	0	1,902,000	24	0
Posdef Power Co. L.P, Stockton, San Joaquin	480,161	44	0	0	0	148,786	628,991	17	0
Molycorp, Inc., Mountain Pass, San Bernardino	323	0	0	0	0	222,983	223,306	0	0
Ace Cogeneration Facility, Trona, San Bernardino	110,200	0	0	0	0	86,000	196,200	0	0
Stockton Cogen Co., Stockton, San Joaquin	59,718	6	0	0	0	0	59,724	64,100	0
Equilon Carson Terminal, Carson, Los Angeles	45,120	0	0	0	0	780	45,900	20	0
Romic Environmental Techs. Corp., East Palo Alto, San Mateo	42,246	0	0	0	0	0	42,246	14,946	204,247

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.





# 1999 Toxics Release Inventory

## CALIFORNIA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
U.S. Army Sierra Army Depot, Herlong, Lassen	0	0	0	0	0	0	5,390,239	5,390,239	7
Chevron USA Prods. Co., El Segundo, Los Angeles	0	3,585	0	0	2,268,000	22,387	2,699,220	4,993,192	5,291
Mobil Torrance Refy., Torrance, Los Angeles	1,241,274	189,000	0	0	3,001,735	438,500	2,007,598	6,878,107	0
U.S. Filter Recovery Services (CA) Inc., Vernon, Los Angeles	0	983,035	0	0	1,358,193	2,978	1,430,541	3,774,747	64
Chevron Prods. Co. Richmond Refy., Richmond, Contra Costa	0	13,174	0	0	642,240	0	1,272,662	1,928,076	100
Hilmar Cheese Co. Inc., Hilmar, Merced	0	0	0	0	242,000	0	1,258,350	1,500,350	0
Quemetco Inc., City of Industry, Los Angeles	0	0	0	0	0	0	1,217,000	1,217,000	11,121
Louisiana-Pacific Corp. Samoa Pulp Mill, Samoa, Humboldt	0	0	2,500,000	0	0	0	1,212,730	3,712,730	0
Tosco San Francisco Area Refy. at Avon, Martinez, Contra Costa	79,150	12,140	0	0	47,937,810	5,401	1,094,795	49,129,296	300,275
ExxonMobil Refining & Supply Benicia Refy., Benicia, Solano	1,100	198,284	20,700,000	0	275,000	13,945	1,057,384	22,245,713	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Chemical Waste Management Inc., Kettleman City, Kings	0	12	0	3,304	0	16,632	12,744,921	12,764,869	0
Safety-Kleen (Buttonwillow) Inc., Buttonwillow, Kern	0	0	0	0	0	0	3,634,353	3,634,353	1
Mclaughlin Mine, Lower Lake, Lake	0	0	0	0	660,213	0	2,795,633	3,455,846	9
Safety-Kleen (Westmorland) Inc., Westmorland, Imperial	0	0	0	0	0	0	1,902,026	1,902,026	0
Posdef Power Co. L.P., Stockton, San Joaquin	0	0	0	0	0	0	630,120	630,120	0
Molycorp, Inc., Mountain Pass, San Bernardino	0	0	0	0	0	0	223,306	223,306	0
Stockton Cogen Co., Stockton, San Joaquin	0	0	0	0	0	0	123,824	123,824	0
CR Briggs Corp., Ballarat, Inyo	0	46,700	0	0	0	0	67,020	113,720	3
Romic Environmental Techs. Corp., East Palo Alto, San Mateo	13,391,327	1,946	0	3,788,635	9,857,629	4,343,140	66,643	31,449,320	0
DK Environmental Inc., Vernon, Los Angeles	0	135,000	0	0	1,460,000	391,000	63,368	2,049,368	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## COLORADO

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	6,078,524	15,014,803	21,093,327
Air Emissions	2,721,432	1,409,337	4,130,769
Surface Water Discharges	3,114,517	20,724	3,135,241
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	143,612	143,612
On-site Land Releases to RCRA Subtitle C Landfills	137,583	0	137,583
Other On-site Land Releases	104,992	13,441,130	13,546,122
Off-site Releases (Transfers Off-site to Disposal)*	596,678	4,394,686	4,991,364
<b>Total On- and Off-site Releases</b>	<b>6,675,202</b>	<b>19,409,489</b>	<b>26,084,691</b>
Recycled On-site	14,577,387	1,075	14,578,462
Recycled Off-site	19,148,759	30,153	19,178,912
Energy Recovery On-site	422,626	0	422,626
Energy Recovery Off-site	5,589,407	1,487	5,590,894
Treated On-site	9,910,314	3,276,198	13,186,512
Treated Off-site**	3,753,209	5,834	3,759,043
Quantity Released On- and Off-site***	7,320,099	19,668,717	26,988,816
<b>Total Production-related Waste Managed</b>	<b>60,721,801</b>	<b>22,983,464</b>	<b>83,705,265</b>
<b>Total Non-production-related Waste Managed</b>	<b>320,174</b>	<b>762</b>	<b>320,936</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	16,553,692	30,862	16,584,554
Energy Recovery	5,566,720	2,624	5,569,344
Treatment	2,551,577	8,096	2,559,673
Publicly Owned Treatment Works (POTWs)	1,142,941	750	1,143,691
Metals and Metal Compounds*	1,751	750	2,501
Non-metal TRI Chemicals**	1,141,190	0	1,141,190
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	1,476,727	4,688,852	6,165,579
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>27,291,657</b>	<b>4,731,184</b>	<b>32,022,841</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

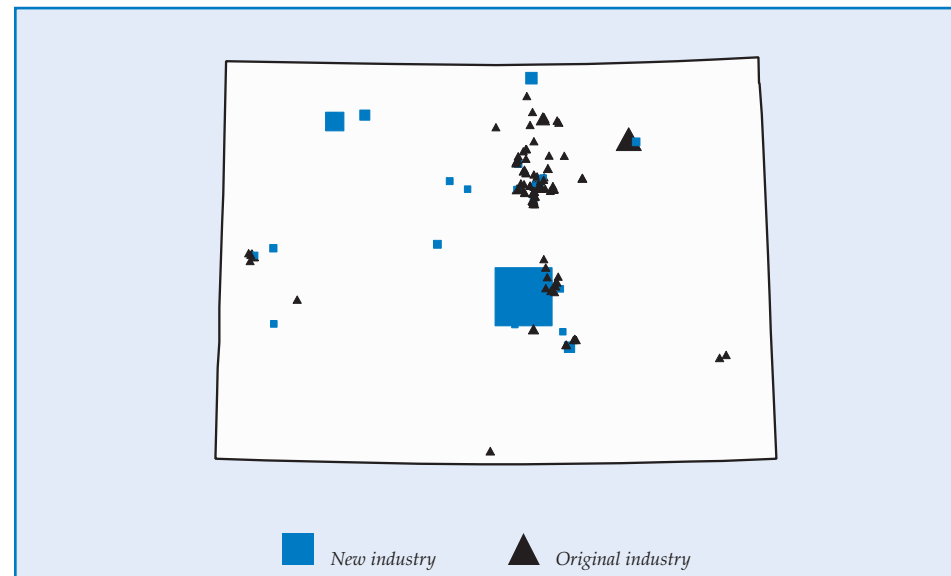
#### State Contact:

Kirk Mills  
(303) 692-2977  
Fax: (303) 782-4969  
E-mail: kirk.mills@state.co.us

#### EPA Regional Contact:

Joyel Dhieux  
(303) 312-6447  
Fax: (303) 312-6044  
E-mail: dhieux.joyel@epa.gov

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Colorado. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	4,056,133
Square Miles	103,729
Total Facilities	195
Total Forms	613
Form As	145

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	40	29	39
Pounds	6,675,202	19,409,489	26,084,691
<b>National Rank for Total On-site Releases**</b>			
Rank	39	29	39
Pounds	6,078,524	15,014,803	21,093,327
<b>National Rank for Total Releases within State***</b>			
Rank	40	29	39
Pounds	6,600,325	19,431,186	26,031,511
<b>National Rank for Production-related Waste Managed</b>			
Rank	41	33	43
Pounds	60,721,801	22,983,464	83,705,265

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## COLORADO

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Nitrate compounds	10	3,087,824	0	0	47	3,087,881	1,258	47	0
--	Zinc compounds	45,468	0	0	14,237	806,135	865,840	0	20,946	785,189
7664-41-7	Ammonia	578,221	9,522	0	1,777	2,798	592,318	0	2,798	0
71-36-3	n-Butyl alcohol	519,556	0	0	0	610	520,166	0	610	0
--	Glycol ethers	428,307	6,310	0	0	274	434,891	0	274	0
8001-58-9	Creosote	8,593	280	0	2,087	288,005	298,965	0	288,005	0
108-88-3	Toluene	203,614	0	0	0	3,200	206,814	10	3,200	0
110-54-3	n-Hexane	160,709	0	0	0	800	161,509	3	800	0
67-56-1	Methanol	148,765	120	0	47	0	148,932	0	0	0
--	Manganese compounds	6,956	10,000	0	8,700	100,000	125,656	0	0	100,000

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Transfers	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Manganese compounds	2,907	1,561	0	8,934,293	692,564	9,631,325	0	711,564	0
--	Barium compounds	17,578	2,959	0	4,122,070	3,526,005	7,668,612	0	3,799,421	0
7664-39-3	Hydrogen fluoride	743,574	0	0	0	0	743,574	2	0	0
7647-01-0	Hydrochloric acid	449,587	0	0	0	0	449,587	0	0	0
--	Zinc compounds	1,424	650	78,895	122,747	70,797	274,513	0	70,797	0
--	Lead compounds	325	323	59,139	83,930	38,378	182,095	0	38,378	0
--	Copper compounds	470	173	5,578	56,214	38,900	101,335	0	38,900	0
7782-50-5	Chlorine	83,010	0	0	0	0	83,010	0	0	0
--	Chromium compounds	263	5	0	27,684	27,000	54,952	0	27,000	0
7664-41-7	Ammonia	30,000	0	0	3,100	0	33,100	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## COLORADO

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Excel Corp., Fort Morgan, Morgan	40	2,301,630	0	0	0	0	2,301,670	1,453	0
Kodak Colorado Div., Windsor, Weld	52,256	672,518	0	0	0	380	725,154	0	0
Ball Metal Beverage Container Corp., Golden, Jefferson	351,128	0	0	0	0	0	351,128	1,024	0
Holnam Inc. Portland Plant, Florence, Fremont	293,976	0	0	0	0	0	293,976	0	0
Metal Container Corp. Windsor, Windsor, Weld	275,685	0	0	0	0	0	275,685	500	0
Valley Metal Container, Golden, Jefferson	255,900	3	0	0	0	0	255,903	844	0
Safety-Kleen (Deer Trail) Inc., Deer Trail, Adams	0	0	0	0	137,573	0	137,573	0	0
Conoco Denver Refy., Commerce City, Adams	111,346	23,780	0	0	0	0	135,126	10	0
Roche Colorado Corp., Boulder, Boulder	120,247	0	0	0	0	0	120,247	9,760	24,000
Intertape Polymer Group, Brighton, Adams	116,100	0	0	0	0	0	116,100	4,000	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

Safety-Kleen (Deer Trail) incorrectly reported SIC code 5093 (scrap and waste materials) in their 1999 submissions. Due to this error, EPA placed this facility in the "no codes" SIC code category in the original industry group. This facility should have reported in SIC code 4953 (RCRA Subtitle C facility) and been classified in the New Industries table.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State	Transferred Out of State
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Cripple Creek & Victor Gold Mining Co., Victor, Teller	7,941	0	0	0	0	8,613,012	8,620,953	0	0
Trapper Mining Inc., Craig, Moffat	430	127	0	0	0	2,037,119	2,037,676	0	0
Rawhide Energy Station, Wellington, Larimer	76,808	0	0	0	0	781,763	858,571	0	0
Public Service Co. of Colorado - Comanche Station, Pueblo, Pueblo	45,314	1,470	0	0	0	636,000	682,784	90,300	0
Public Service Co. of Colorado - Hayden Station, Hayden, Routt	196,381	0	0	0	0	424,100	620,481	0	0
Ray D. Nixon Power Plant, Fountain, El Paso	67,515	0	0	0	0	299,955	367,470	500	0
Public Service Co. of Colorado - Cherokee Station, Denver, Adams	323,276	1,270	0	0	0	0	324,546	770,549	0
Tri-State Generation & Transmission - Craig Station, Craig, Moffat	227,186	10	0	0	0	41,490	268,686	2,020,000	0
ASARCO Inc. Leadville Unit Black Cloud Mine, Leadville, Lake	212	479	0	143,612	0	95,741	240,044	0	0
Public Service Co. of Colorado - Pawnee Station, Brush, Morgan	32,381	0	0	0	0	181,900	214,281	341,100	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## COLORADO

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Excel Corp., Fort Morgan, Morgan	0	0	0	0	2,738,163	0	2,303,076	5,041,239	0
CF&I Steel L.P. DBA Rocky Mountain Steel Mills, Pueblo, Pueblo	0	5,055,500	0	0	0	0	983,000	6,038,500	0
Kodak Colorado Div., Windsor, Weld	0	321,000	0	0	955,500	120,200	725,066	2,121,766	0
Ball Metal Beverage Container Corp., Golden, Jefferson	0	0	0	976	575,000	0	351,129	927,105	0
Holnam Inc. Portland Plant, Florence, Fremont	0	0	0	0	0	0	294,000	294,000	0
Metal Container Corp. Windsor, Windsor, Weld	0	0	0	280	9,320	0	276,105	285,705	0
Valley Metal Container, Golden, Jefferson	0	102,000	0	0	600,100	0	256,910	959,010	0
Conoco Denver Refy., Commerce City, Adams	0	0	0	0	99,864	0	135,127	234,991	0
Roche Colorado Corp., Boulder, Boulder	0	0	0	5,342,000	347,625	842,131	132,690	6,664,446	0
Wright & McGill Co., Denver, Denver	0	0	0	0	0	126,000	126,000	252,000	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Wright & McGill Co. incorrectly reported 126,000 pounds as being treated off-site and as a quantity released on- and off-site. This amount should have only been reported as being treated off-site.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Cripple Creek & Victor Gold Mining Co., Victor, Teller	0	0	0	0	0	0	8,620,730	8,620,730	0
Tri-State Generation & Transmission - Craig Station, Craig, Moffat	0	0	0	0	1,733,000	0	2,286,200	4,019,200	0
Trapper Mining Inc., Craig, Moffat	0	0	0	0	0	0	2,037,000	2,037,000	0
Public Service Co. of Colorado - Cherokee Station, Denver, Adams	0	0	0	0	0	0	1,097,000	1,097,000	0
Rawhide Energy Station, Wellington, Larimer	0	0	0	0	75,175	0	858,625	933,800	0
Public Service Co. of Colorado - Comanche Station, Pueblo, Pueblo	0	0	0	0	0	0	766,000	766,000	0
Public Service Co. of Colorado - Hayden Station, Hayden, Routt	0	0	0	0	0	0	619,200	619,200	0
Public Service Co. of Colorado - Arapahoe Station, Denver, Denver	0	0	0	0	0	0	560,000	560,000	0
Public Service Co. of Colorado - Pawnee Station, Brush, Morgan	0	0	0	0	0	0	543,000	543,000	0
Climax Molybdenum Co. - Henderson Mine, Empire, Clear Creek	0	0	0	0	0	0	455,030	455,030	3

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## CONNECTICUT

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	5,119,572	628,544	5,748,116
Air Emissions	4,086,522	628,282	4,714,804
Surface Water Discharges	1,011,848	262	1,012,110
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	21,202	0	21,202
Off-site Releases (Transfers Off-site to Disposal)*	1,240,180	846,979	2,087,159
<b>Total On- and Off-site Releases</b>	<b>6,359,752</b>	<b>1,475,523</b>	<b>7,835,275</b>
Recycled On-site	79,028,146	0	79,028,146
Recycled Off-site	20,514,749	11,600	20,526,349
Energy Recovery On-site	3,396,139	0	3,396,139
Energy Recovery Off-site	2,209,746	0	2,209,746
Treated On-site	15,941,480	1,616,859	17,558,339
Treated Off-site**	6,425,266	243,674	6,668,940
Quantity Released On- and Off-site***	6,569,723	1,700,730	8,270,453
<b>Total Production-related Waste Managed</b>	<b>134,085,249</b>	<b>3,572,863</b>	<b>137,658,112</b>
<b>Total Non-production-related Waste Managed</b>	<b>79,605</b>	<b>25</b>	<b>79,630</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	20,068,012	11,600	20,079,612
Energy Recovery	2,179,189	0	2,179,189
Treatment	4,526,291	128,671	4,654,962
Publicly Owned Treatment Works (POTWs)	1,527,735	91,636	1,619,371
Metals and Metal Compounds*	40,259	1,046	41,305
Non-metal TRI Chemicals**	1,487,476	90,590	1,578,066
Other Off-site Transfers***	143	0	143
Off-site Transfers to Disposal (not including metals to POTWs)	1,250,987	881,515	2,132,502
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>29,552,357</b>	<b>1,113,422</b>	<b>30,665,779</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

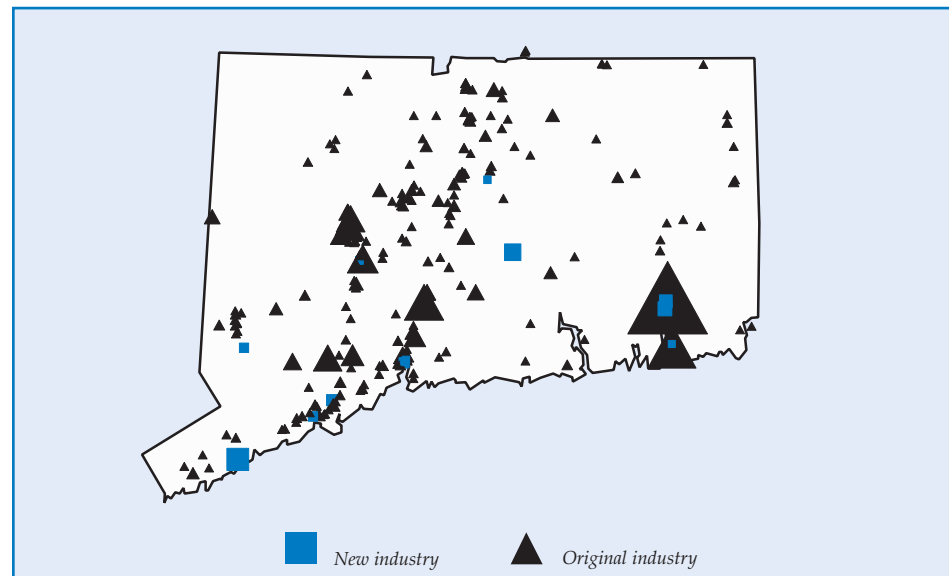
#### State Contact:

Joseph Pulaski  
(860) 424-3373  
Fax: (860) 424-4059  
E-mail: joseph.pulaski@po.state.ct.us

#### EPA Regional Contact:

Dwight Peavey  
(617) 918-1829  
Fax: (617) 918-1810  
E-mail: peavey.dwight@epa.gov

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Connecticut. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	3,282,031
Square Miles	4,845
Total Facilities	319
Total Forms	905
Form As	96

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	41	48	47
Pounds	6,359,752	1,475,523	7,835,275
<b>National Rank for Total On-site Releases**</b>			
Rank	41	48	47
Pounds	5,119,572	628,544	5,748,116
<b>National Rank for Total Releases within State***</b>			
Rank	42	48	47
Pounds	5,820,645	658,271	6,478,916
<b>National Rank for Production-related Waste Managed</b>			
Rank	32	46	38
Pounds	134,085,249	3,572,863	137,658,112

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

# CONNECTICUT

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Nitrate compounds	282	908,656	0	7,647	22,206	938,791	0	21,750	456
108-88-3	Toluene	668,436	298	0	1	689	669,424	563	0	689
75-09-2	Dichloromethane	557,856	255	0	2	0	558,113	0	0	0
75-68-3	1-Chloro-1,1-difluoro-ethane (HCFC-142b)	442,340	0	0	0	0	442,340	0	0	0
67-56-1	Methanol	370,913	14,859	0	0	3,548	389,320	0	0	3,548
79-01-6	Trichloroethylene	308,203	0	0	0	0	308,203	0	0	0
75-00-3	Chloroethane	254,093	0	0	0	11	254,104	0	0	11
--	Zinc compounds	7,356	10,778	0	40	232,209	250,383	22,337	49,223	182,986
78-93-3	Methyl ethyl ketone	205,885	0	0	1	0	205,886	0	0	0
7664-41-7	Ammonia	180,614	21,063	0	0	5	201,682	0	0	5

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-93-9	Sulfuric acid	330,800	0	0	0	0	330,800	0	0	0
--	Nickel compounds	5,301	240	0	0	220,495	226,036	0	378	220,117
--	Chromium compounds	693	1	0	0	190,179	190,873	15,107	252	189,927
7439-92-1	Lead	0	0	0	0	164,282	164,282	0	43	164,239
7647-01-0	Hydrochloric acid	156,000	0	0	0	0	156,000	0	0	0
--	Zinc compounds	3	14	0	0	113,490	113,507	527	4,566	108,924
--	Copper compounds	3	2	0	0	89,532	89,537	0	219	89,313
7664-41-7	Ammonia	46,100	0	0	0	0	46,100	0	0	0
--	Barium compounds	11	0	0	0	42,001	42,012	4	1	42,000
1634-04-4	Methyl tert-butyl ether	36,162	0	0	0	2	36,164	250	2	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.





# 1999 Toxics Release Inventory

# CONNECTICUT

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection					On-site Releases to Land		Transferred Within State	Transferred Out of State
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Dow N.A. Allyn's Point Plant, Gales Ferry, New London	704,949	10	0	0	0	0	704,959	0	50
Pfizer Inc. Groton Site, Groton, New London	168,775	221,915	0	0	0	0	390,690	6,455	21,915
Cytec Inds. Inc., Wallingford, New Haven	178,307	123,936	0	0	0	0	302,243	0	3,450
Olin Corp. Somers Thin Strip Brass Group, Waterbury, New Haven	219,000	52	0	0	0	0	219,052	1,512	16,170
Summit Corp. of America, Thomaston, Litchfield	3,820	195,368	0	0	0	0	199,188	0	36,521
Spongex Int. Ltd., Shelton, Fairfield	197,261	0	0	0	0	0	197,261	0	0
Carlson Prods. Co., Derby, New Haven	141,000	0	0	0	0	0	141,000	0	0
U.S. Surgical Corp., North Haven, New Haven	128,010	0	0	0	0	0	128,010	0	0
Seidel Inc., Waterbury, New Haven	0	112,968	0	0	0	7,647	120,615	0	0
Philson Inc., Watertown, Litchfield	1,830	100,000	0	0	0	0	101,830	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection					On-site Releases to Land		Transferred Within State	Transferred Out of State
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Norwalk Harbor Station, Norwalk, Fairfield	185,102	0	0	0	0	0	185,102	0	18,730
NRG Energy Inc.Middletown Station, Middletown, Middlesex	117,100	0	0	0	0	0	117,100	0	0
Montville Station, Uncasville, New London	86,000	0	0	0	0	0	86,000	0	0
AES Thames Generation Plant, Uncasville, New London	72,422	18	0	0	0	0	72,440	5	91,600
Devon Station, Milford, Fairfield	49,000	0	0	0	0	0	49,000	0	0
Gulf Oil L.P. New Haven Terminal, New Haven, New Haven	39,045	5	0	0	0	0	39,050	0	0
Wisvest-Connecticut L.L.C. Bridgeport Harbor Station, Bridgeport, Fairfield	29,287	239	0	0	0	0	29,526	0	50,831
Motiva Bridgeport Terminal, Bridgeport, Fairfield	27,704	0	0	0	0	0	27,704	0	2
Hubbard-Hall Inc., Waterbury, New Haven	8,776	0	0	0	0	0	8,776	0	0
Amerada Hess Corp. New Haven Terminal, New Haven, New Haven	5,861	0	0	0	0	0	5,861	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## CONNECTICUT

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Dow N.A. Allyn's Point Plant, Gales Ferry, New London	0	0	856,000	0	3,030	648,950	704,621	2,212,601	0
Pfizer Inc. Groton Site, Groton, New London	0	0	0	0	1,058,890	3,390,512	422,830	4,872,232	0
Cytec Inds. Inc., Wallingford, New Haven	73,700,000	0	0	380,600	3,360,538	1,204	302,893	77,745,235	1,393
Olin Corp. Somers Thin Strip Brass Group, Waterbury, New Haven	0	0	0	5,300	0	0	236,656	241,956	0
Summit Corp. of America, Thomaston, Litchfield	0	2,160	0	0	201,232	0	235,758	439,150	0
Echo Mfg. Co. Inc., Waterbury, New Haven	0	130,585	0	0	135,260	0	181,820	447,665	0
Spongex Int. Ltd., Shelton, Fairfield	0	0	0	0	0	0	170,461	170,461	0
Carlson Prods. Co., Derby, New Haven	0	0	0	0	0	0	141,000	141,000	1
U.S. Surgical Corp., North Haven, New Haven	0	131,055	0	5	24,900	7,520	128,000	291,480	0
Mahle Inc. Trumbull Plant, Trumbull, Fairfield	0	10,145	0	0	121,445	119,507	119,513	370,610	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Clean Harbors of Connecticut Inc., Bristol, Hartford	0	0	0	0	350,400	218,119	935,020	1,503,539	8
Norwalk Harbor Station, Norwalk, Fairfield	0	0	0	0	710,000	0	204,000	914,000	0
AES Thames Generation Plant, Uncasville, New London	0	11,600	0	0	0	0	163,600	175,200	6
NRG Energy Inc. Middletown Station, Middletown, Middlesex	0	0	0	0	158,000	0	117,100	275,100	0
Montville Station, Uncasville, New London	0	0	0	0	150,000	0	86,000	236,000	0
Wisvest-Connecticut L.L.C. Bridgeport Harbor Station, Bridgeport, Fairfield	0	0	0	0	0	24,831	55,526	80,357	0
Devon Station, Milford, Fairfield	0	0	0	0	210,000	0	49,000	259,000	0
Gulf Oil L.P. New Haven Terminal, New Haven, New Haven	0	0	0	0	0	0	40,145	40,145	0
Motiva Bridgeport Terminal, Bridgeport, Fairfield	0	0	0	0	0	152	27,706	27,858	0
Hubbard-Hall Inc., Waterbury, New Haven	0	0	0	0	0	0	8,776	8,776	10

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## DELAWARE

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	4,715,296	3,601,022	8,316,318
Air Emissions	3,250,938	3,404,940	6,655,878
Surface Water Discharges	1,186,039	11,822	1,197,861
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	278,319	184,260	462,579
Off-site Releases (Transfers Off-site to Disposal)*	2,992,884	71,152	3,064,036
<b>Total On- and Off-site Releases</b>	<b>7,708,180</b>	<b>3,672,174</b>	<b>11,380,354</b>
Recycled On-site	32,571,856	0	32,571,856
Recycled Off-site	9,345,837	0	9,345,837
Energy Recovery On-site	22,981,591	0	22,981,591
Energy Recovery Off-site	1,420,826	0	1,420,826
Treated On-site	69,149,944	351,207	69,501,151
Treated Off-site**	3,882,099	0	3,882,099
Quantity Released On- and Off-site***	7,673,600	3,672,174	11,345,774
<b>Total Production-related Waste Managed</b>	<b>147,025,753</b>	<b>4,023,381</b>	<b>151,049,134</b>
<b>Total Non-production-related Waste Managed</b>	<b>22,528</b>	<b>4</b>	<b>22,532</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	9,048,521	0	9,048,521
Energy Recovery	1,362,314	0	1,362,314
Treatment	1,142,228	0	1,142,228
Publicly Owned Treatment Works (POTWs)	2,996,627	26	2,996,653
Metals and Metal Compounds*	11,270	26	11,296
Non-metal TRI Chemicals**	2,985,357	0	2,985,357
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	2,986,140	71,126	3,057,266
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>17,535,830</b>	<b>71,152</b>	<b>17,606,982</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

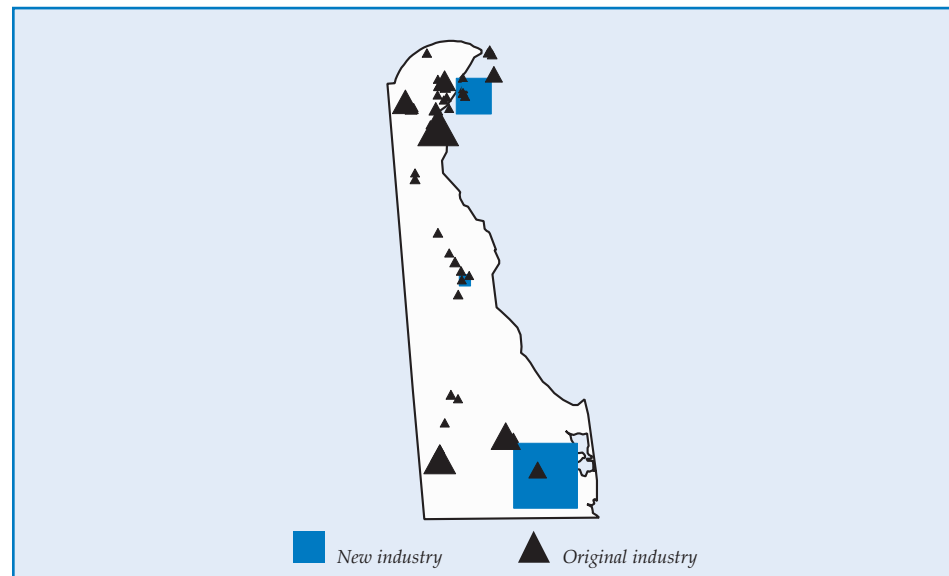
David Fees  
(302) 739-4791  
Fax: (302) 739-3106  
E-mail: dfees@dnrec.state.de.us

#### EPA Regional Contact:

William Reilly  
(215) 814-2072  
Fax: (215) 814-3114  
E-mail: reilly.william@epa.gov

#### To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Delaware. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	753,538
Square Miles	1,955
Total Facilities	72
Total Forms	313
Form As	64

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	39	44	45
Pounds	7,708,180	3,672,174	11,380,354
<b>National Rank for Total On-site Releases**</b>			
Rank	42	44	45
Pounds	4,715,296	3,601,022	8,316,318
<b>National Rank for Total Releases within State***</b>			
Rank	38	45	44
Pounds	7,704,918	3,607,771	11,312,689
<b>National Rank for Production-related Waste Managed</b>			
Rank	31	45	36
Pounds	147,025,753	4,023,381	151,049,134

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## DELAWARE

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Manganese compounds	733	34,734	0	8,719	2,567,650	2,611,836	1,170	2,567,650	0
--	Nitrate compounds	0	1,113,521	0	106	0	1,113,627	0	0	0
7664-93-9	Sulfuric acid	511,897	0	0	0	0	511,897	0	0	0
--	Glycol ethers	353,397	0	0	0	1	353,398	1,300	1	0
110-54-3	n-Hexane	289,105	0	0	0	0	289,105	0	0	0
1330-20-7	Xylene (mixed isomers)	285,135	8	0	0	0	285,143	0	0	0
--	Nickel compounds	2,727	1,555	0	249,025	26,242	279,549	319	25,562	680
7647-01-0	Hydrochloric acid	252,591	0	0	0	0	252,591	0	0	0
463-58-1	Carbonyl sulfide	230,000	0	0	0	0	230,000	0	0	0
--	Chromium compounds	3,088	101	0	1,781	197,408	202,378	250	188,714	8,694

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	2,851,069	0	0	0	0	2,851,069	0	0	0
7664-93-9	Sulfuric acid	365,606	0	0	0	0	365,606	0	0	0
7664-39-3	Hydrogen fluoride	154,829	0	0	0	0	154,829	0	0	0
--	Barium compounds	6,041	2,807	0	73,429	58,061	140,338	0	56	58,005
--	Nickel compounds	18,145	458	0	24,313	12,349	55,265	5	661	11,688
--	Zinc compounds	1,338	7,591	0	30,619	85	39,633	5	15	70
--	Chromium compounds	2,651	902	0	31,511	308	35,372	5	221	87
--	Manganese compounds	2,766	62	0	24,388	349	27,565	5	276	73
108-88-3	Toluene	1,270	0	0	0	0	1,270	1,250	0	0
1634-04-4	Methyl tert-butyl ether	1,039	0	0	0	0	1,039	1,250	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## DELAWARE

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Motiva, Delaware City, New Castle	735,508	21,934	0	0	0	263,221	1,020,663	0	707
Du Pont Seaford Plant, Seaford, Sussex	274,050	460,200	0	0	0	240	734,490	0	0
Georgetown Processing Plant Facility #17, Georgetown, Sussex	0	652,911	0	0	0	106	653,017	0	0
DaimlerChrysler Co. Newark Assembly Plant, Newark, New Castle	542,190	0	0	0	0	0	542,190	11,451	19
GMC Nao Wilmington Assembly Plant, Wilmington, New Castle	412,206	0	0	0	0	0	412,206	200	0
Townsend, Inc., Millsboro, Sussex	264,555	0	0	0	0	13,995	278,550	0	0
Du Pont Edge Moor, Edgemoor, New Castle	227,508	36,108	0	0	0	0	263,616	2,930,629	0
Formosa Plastics Corp., Delaware City, New Castle	151,895	0	0	0	0	0	151,895	0	0
Metachem Prods. L.L.C., New Castle, New Castle	105,924	235	0	0	0	0	106,159	0	0
Rodel Inc., Newark, New Castle	95,284	0	0	0	0	0	95,284	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection		On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
			Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Indian River Power Plant, Millsboro, Sussex	2,099,657	9,008	0	0	0	184,260	2,292,925	569	456
Edge Moor/Hay Road Power Plants, Wilmington, New Castle	1,128,704	2,808	0	0	0	0	1,131,512	660	69,467
NRG Energy Center Dover, Dover, Kent	170,304	0	0	0	0	0	170,304	0	0
American Minerals Inc., New Castle, New Castle	3,820	6	0	0	0	0	3,826	0	0
Sico #360 Wilmington Terminal, Wilmington, New Castle	2,455	0	0	0	0	0	2,455	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## DELAWARE

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Du Pont Edge Moor, Edgemoor, New Castle	0	0	0	0	36,895,000	800	3,194,245	40,090,045	0
Motiva, Delaware City, New Castle	0	100,740	20,704,099	546	19,528,280	345	1,014,207	41,348,217	0
Du Pont Seaford Plant, Seaford, Sussex	0	0	0	0	636,000	3,019	734,490	1,373,509	0
Georgetown Processing Plant Facility #17, Georgetown, Sussex	0	0	0	0	0	0	653,017	653,017	0
DaimlerChrysler Co. Newark Assembly Plant, Newark, New Castle	0	397,187	0	4,937	72,320	223,911	551,309	1,249,664	0
GMC Nao Wilmington Assembly Plant, Wilmington, New Castle	0	265,000	0	0	77,510	27,505	409,608	779,623	0
Townsend, Inc., Millsboro, Sussex	0	0	0	0	0	0	264,555	264,555	1
Formosa Plastics Corp., Delaware City, New Castle	0	0	0	0	447,818	0	144,638	592,456	7,257
Metachem Prods. L.L.C., New Castle, New Castle	208,084	0	0	0	2,363,580	349,718	99,874	3,021,256	12,390
Rodel Inc., Newark, New Castle	4,904,628	0	0	193,063	425,204	354,940	94,979	5,972,814	289

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Indian River Power Plant, Millsboro, Sussex	0	0	0	0	286,807	0	2,293,950	2,580,757	0
Edge Moor/Hay Road Power Plants, Wilmington, New Castle	0	0	0	0	64,400	0	1,201,639	1,266,039	0
NRG Energy Center Dover, Dover, Kent	0	0	0	0	0	0	170,304	170,304	0
American Minerals Inc., New Castle, New Castle	0	0	0	0	0	0	3,826	3,826	4
Sico #360 Wilmington Terminal, Wilmington, New Castle	0	0	0	0	0	0	2,455	2,455	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

# DISTRICT OF COLUMBIA

## Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	44	79,871	79,915
Air Emissions	0	79,871	79,871
Surface Water Discharges	44	0	44
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	0	0	0
Off-site Releases (Transfers Off-site to Disposal)*	18,052	0	18,052
<b>Total On- and Off-site Releases</b>	<b>18,096</b>	<b>79,871</b>	<b>97,967</b>
Recycled On-site	0	0	0
Recycled Off-site	14,089	2,282	16,371
Energy Recovery On-site	0	0	0
Energy Recovery Off-site	0	0	0
Treated On-site	0	0	0
Treated Off-site**	0	0	0
Quantity Released On- and Off-site***	18,096	79,871	97,967
<b>Total Production-related Waste Managed</b>	<b>32,185</b>	<b>82,153</b>	<b>114,338</b>
<b>Total Non-production-related Waste Managed</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Transfers Off-site for Further Waste Management/Disposal

Recycling	14,089	2,282	16,371
Energy Recovery	0	0	0
Treatment	0	0	0
Publicly Owned Treatment Works (POTWs)	0	0	0
Metals and Metal Compounds*	0	0	0
Non-metal TRI Chemicals**	0	0	0
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	18,052	0	18,052
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>32,141</b>	<b>2,282</b>	<b>34,423</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

## For More Information . . .

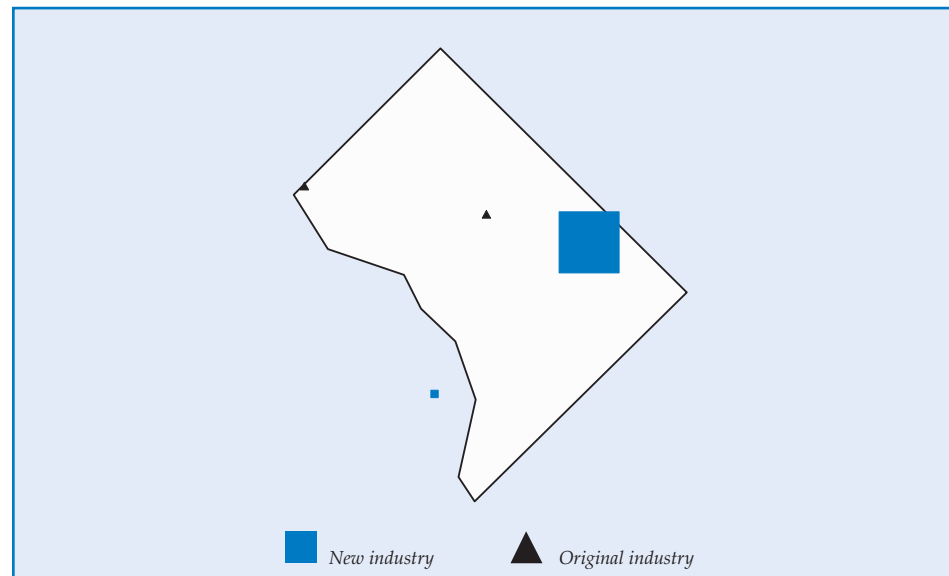
### State Contact:

Michele Penick  
(202) 673-2101, ext. 1159  
Fax: (202) 673-2290  
E-mail: mpenick-oep@dcm.gov

### EPA Regional Contact:

Bill Reilly  
(215) 814-2072  
Fax: (215) 814-3114  
E-mail: reilly.william@epa.gov

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the District of Columbia. All markers are proportionally-sized to represent the on-site releases at each facility within this territory.

## State/TRI Data

Population	519,000
Square Miles	61
Total Facilities	5
Total Forms	19
Form As	0

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	53	52	54
Pounds	18,096	79,871	97,967
<b>National Rank for Total On-site Releases**</b>			
Rank	53	51	54
Pounds	44	79,871	79,915
<b>National Rank for Total Releases within State***</b>			
Rank	53	52	54
Pounds	563	79,871	80,434
<b>National Rank for Production-related Waste Managed</b>			
Rank	53	53	54
Pounds	32,185	82,153	114,338

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.





# 1999 Toxics Release Inventory

# DISTRICT OF COLUMBIA

## On and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-Site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Manganese compounds	0	40	0	0	13,500	13,540	0	0	13,500
--	Copper compounds	0	4	0	0	3,200	3,204	0	0	3,200
--	Nickel compounds	0	0	0	0	1,352	1,352	0	0	1,352

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

## On- and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-Site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-93-9	Sulfuric acid	79,000	0	0	0	0	79,000	0	0	0
108-88-3	Toluene	188	0	0	0	0	188	0	0	0
1634-04-4	Methyl tert-butyl ether	179	0	0	0	0	179	0	0	0
95-47-6	o-Xylene	163	0	0	0	0	163	0	0	0
91-20-3	Naphthalene	103	0	0	0	0	103	0	0	0
75-65-0	tert-Butyl alcohol	60	0	0	0	0	60	0	0	0
95-63-6	1,2,4-Trimethylbenzene	38	0	0	0	0	38	0	0	0
100-41-4	Ethylbenzene	38	0	0	0	0	38	0	0	0
71-43-2	Benzene	37	0	0	0	0	37	0	0	0
110-54-3	n-Hexane	36	0	0	0	0	36	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

# DISTRICT OF COLUMBIA

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
U.S. Army Corps of Engineers Dalecarlia WTP Aqueduct, Washington, Dist of Columbia	0	33	0	0	0	0	33	0	9,300
U.S. Army Corps of Eng. Mcmillan WTP Washington Aqueduct Div., Washington, Dist of Columbia	0	11	0	0	0	0	11	0	7,400
U.S. Bureau of Engraving & Printing, Washington, Dist of Columbia	0	0	0	0	0	0	0	0	1,352

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Potomac Electric Power Co. Benning Generating Station, Washington, Dist of Columbia	79,000	0	0	0	0	0	79,000	0	0
Ogden Aviation Fueling Co. Inc., Washington, Dist of Columbia	871	0	0	0	0	0	871	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

# DISTRICT OF COLUMBIA

## Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
U.S. Army Corps of Engineers Dalecarlia WTP Aqueduct, Washington, Dist of Columbia	0	901	0	0	0	0	9,333	10,234	0
U.S. Army Corps of Eng. Mcmillan WTP Washington Aqueduct Div., Washington, Dist of Columbia	0	601	0	0	0	0	7,411	8,012	0
U.S. Bureau of Engraving & Printing, Washington, Dist of Columbia	0	12,587	0	0	0	0	1,352	13,939	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

## Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Potomac Electric Power Co. Benning Generating Station, Washington, Dist of Columbia	0	0	0	0	0	0	79,000	79,000	0
Ogden Aviation Fueling Co. Inc., Washington, Dist of Columbia	0	2,282	0	0	0	0	871	3,153	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## FLORIDA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	73,134,801	71,448,991	144,583,792
Air Emissions	36,023,988	60,772,093	96,796,081
Surface Water Discharges	2,430,306	54,795	2,485,101
Underground Injection Class I Wells	32,769,162	0	32,769,162
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	22,669	1,298,793	1,321,462
Other On-site Land Releases	1,888,676	9,323,310	11,211,986
Off-site Releases (Transfers Off-site to Disposal)*	3,579,239	1,243,589	4,822,828
<b>Total On- and Off-site Releases</b>	<b>76,714,040</b>	<b>72,692,580</b>	<b>149,406,620</b>
Recycled On-site	72,480,919	2,392,675	74,873,594
Recycled Off-site	19,534,593	170,543	19,705,136
Energy Recovery On-site	23,845,554	0	23,845,554
Energy Recovery Off-site	3,549,244	1,917,890	5,467,134
Treated On-site	90,613,719	35,548,675	126,162,394
Treated Off-site**	10,904,515	195,802	11,100,317
Quantity Released On- and Off-site***	74,804,515	70,759,636	145,564,151
<b>Total Production-related Waste Managed</b>	<b>295,733,059</b>	<b>110,985,221</b>	<b>406,718,280</b>
<b>Total Non-production-related Waste Managed</b>	<b>27,816</b>	<b>125,044</b>	<b>152,860</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	19,584,283	173,368	19,757,651
Energy Recovery	3,486,098	1,931,178	5,417,276
Treatment	2,479,678	485,758	2,965,436
Publicly Owned Treatment Works (POTWs)	8,244,299	522	8,244,821
Metals and Metal Compounds*	10,593	22	10,615
Non-metal TRI Chemicals**	8,233,706	500	8,234,206
Other Off-site Transfers***	686	0	686
Off-site Transfers to Disposal (not including metals to POTWs)	4,230,133	1,243,567	5,473,700
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>38,025,177</b>	<b>3,834,393</b>	<b>41,859,570</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

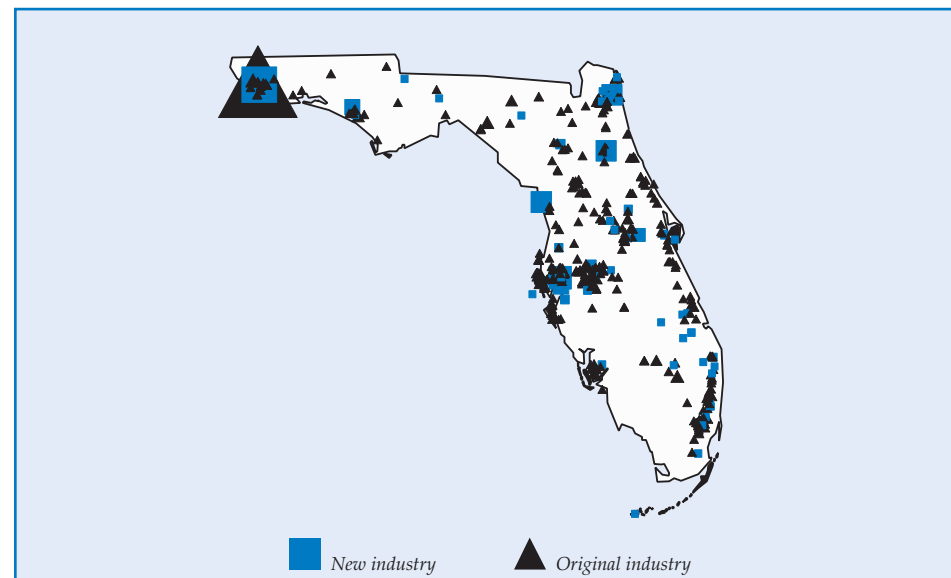
Sam Brackett  
(850) 413-9970  
Fax: (850) 488-1739  
E-mail: sam.brackett@dca.state.fl.us

#### EPA Regional Contact:

Ezequiel Velez  
(404) 562-9191  
Fax: (404) 562-9163

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531

Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Florida. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	15,111,244
Square Miles	53,997
Total Facilities	611
Total Forms	1,739
Form As	325

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	9	13	13
Pounds	76,714,040	72,692,580	149,406,620
<b>National Rank for Total On-site Releases**</b>			
Rank	9	12	11
Pounds	73,134,801	71,448,991	144,583,792
<b>National Rank for Total Releases within State***</b>			
Rank	11	12	14
Pounds	76,238,002	72,287,252	148,525,254
<b>National Rank for Production-related Waste Managed</b>			
Rank	26	14	24
Pounds	295,733,059	110,985,221	406,718,280

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## FLORIDA

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Nitrate compounds	63,555	1,794,964	23,215,825	441,330	1,832,340	27,348,014	0	1,781,340	51,000
67-56-1	Methanol	9,014,556	23,960	505,522	31,530	26,931	9,602,499	0	26,930	1
7664-41-7	Ammonia	8,013,976	390,654	581,319	109,025	231,323	9,326,297	0	109,714	121,609
100-42-5	Styrene	4,542,453	1	0	76	41,503	4,584,033	0	38,503	3,250
64-18-6	Formic acid	6,203	3,634	3,818,704	0	0	3,828,541	3,013	0	0
71-36-3	n-Butyl alcohol	352,772	0	2,043,004	0	750	2,396,526	0	750	0
80-62-6	Methyl methacrylate	1,812,314	0	0	0	500	1,812,814	0	500	0
108-88-3	Toluene	1,596,472	0	0	2,477	586	1,599,535	810	0	586
75-09-2	Dichloromethane	1,308,942	0	0	0	1,988	1,310,930	9,875	3	1,985
108-93-0	Cyclohexanol	4,218	0	1,214,707	0	0	1,218,925	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	40,418,859	0	0	0	0	40,418,859	0	0	0
7664-93-9	Sulfuric acid	16,921,147	0	0	0	0	16,921,147	0	0	0
--	Barium compounds	23,042	3,168	0	3,361,074	257,516	3,644,800	0	141,266	116,250
7664-39-3	Hydrogen fluoride	2,897,403	0	0	500	340	2,898,243	0	340	0
--	Manganese compounds	11,661	759	0	2,009,277	190,740	2,212,437	0	137,735	53,005
--	Nickel compounds	137,085	4,187	0	1,429,777	139,207	1,710,256	0	108,909	30,298
--	Zinc compounds	11,078	16,944	0	1,380,568	128,838	1,537,428	0	97,188	31,650
--	Copper compounds	12,111	24,152	0	874,140	79,915	990,318	0	55,565	24,350
--	Chromium compounds	7,978	822	0	754,665	188,301	951,766	0	188,296	5
7664-41-7	Ammonia	100,505	280	0	226,250	8	327,043	0	6	2

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## FLORIDA

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection		Underground Injection			Transferred Within State Pounds	Transferred Out of State Pounds
			Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Solutia Inc., Gonzalez, Escambia	273,071	1,903	32,154,021	0	0	0	32,428,995	2,543	72
IMC-Agrico - Nichols Plant, Mulberry, Polk	2,915,500	1,300	0	0	0	0	2,916,800	0	0
Champion Intl. Corp., Cantonment, Escambia	2,274,566	117,566	0	0	0	172,000	2,564,132	307,406	0
Maverick Boat Co., Fort Pierce, St Lucie	2,092,154	0	0	0	0	0	2,092,154	0	0
Buckeye Florida L.P, Perry, Taylor	1,847,138	112,370	0	0	0	106,000	2,065,508	0	0
Georgia-Pacific Corp., Palatka, Putnam	1,943,965	57,026	0	0	0	35,419	2,036,410	0	0
U.S. Sugar Corp., Bryant Mill, Bryant, Palm Beach	1,668,120	0	0	0	0	309,033	1,977,153	0	0
Stone Container Corp., Panama City, Bay	1,597,883	0	0	0	0	45,508	1,643,391	1,938	0
Jefferson Smurfit Corp., Fernandina Beach, Nassau	1,567,373	13,132	0	0	0	0	1,580,505	0	0
Gold Kist Live Oak Processing Plant, Live Oak, Suwannee	7,150	1,400,220	0	0	0	7,626	1,414,996	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				Underground Injection			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Gulf Power Co. - Plant Crist, Pensacola, Escambia	15,798,604	1,762	0	0	0	446,721	16,247,087	0	0
Tampa Electric Co. - Gannon Station, Tampa, Hillsborough	8,730,620	5,800	0	0	0	220,412	8,956,832	0	0
Florida Power Corp. - Crystal River Energy Complex, Crystal River, Citrus	7,890,175	18,900	0	0	0	25,240	7,934,315	277	0
Seminole Generating Station, Palatka, Putnam	4,035,481	2,904	0	0	0	3,714,892	7,753,277	0	0
St. Johns River Power Park/Northside Generating Station, Jacksonville, Duval	6,537,385	8,250	0	0	0	1,192,210	7,737,845	1,265	1,520
Tampa Electric Co. - Big Bend Station, Apollo Beach, Hillsborough	5,034,660	10,000	0	0	0	54,557	5,099,217	0	0
Gulf Power Co. - Plant Lansing Smith, Southport, Bay	4,381,699	2,246	0	0	0	320,820	4,704,765	0	0
Stanton Energy Complex, Orlando, Orange	232,365	0	0	0	0	3,105,750	3,338,115	486,000	0
C.D. McIntosh Jr. Power Plant, Lakeland, Polk	368,924	598	0	0	1,298,793	0	1,668,315	0	0
Gainesville Regional Utilities Deerhaven Generating Station, Gainesville, Alachua	1,409,145	0	0	0	0	134	1,409,279	221	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## FLORIDA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Solutia Inc., Gonzalez, Escambia	46,826	132,972	1,382,411	0	15,081,303	0	32,435,601	49,079,113	4,185
IMC-Agrico - Nichols Plant, Mulberry, Polk	0	0	0	0	0	0	2,906,700	2,906,700	0
Champion Intl. Corp., Cantonment, Escambia	0	0	10,098,000	0	9,929,600	0	2,770,278	22,797,878	0
Buckeye Florida L.P., Perry, Taylor	0	0	1,866,500	0	10,552,070	0	2,061,780	14,480,350	0
Georgia-Pacific Corp., Palatka, Putnam	0	0	0	0	14,940,000	0	2,030,280	16,970,280	0
U.S. Sugar Corp., Bryant Mill, Bryant, Palm Beach	0	0	0	0	0	0	1,977,153	1,977,153	3
Jefferson Smurfit Corp., Fernandina Beach, Nassau	0	0	78,441	0	9,144,933	0	1,638,524	10,861,898	0
Stone Container Corp., Panama City, Bay	0	0	40,053	0	8,161,215	7,906,412	1,624,212	17,731,892	0
Eveready Battery Co. Inc. Energizer Power Sys., Alachua, Alachua	35,600	351,600	0	0	32,000	0	1,535,000	1,954,200	19
Gold Kist Live Oak Processing Plant, Live Oak, Suwannee	0	0	0	0	1,295,000	0	1,407,550	2,702,550	480

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Gulf Power Co. - Plant Crist, Pensacola, Escambia	0	0	0	0	0	0	16,247,088	16,247,088	0
Tampa Electric Co. - Gannon Station, Tampa, Hillsborough	0	4	0	0	3,581,000	0	8,956,831	12,537,835	0
Florida Power Corp. - Crystal River Energy Complex, Crystal River, Citrus	0	0	0	0	1,300,000	0	7,944,180	9,244,180	0
Seminole Generating Station, Palatka, Putnam	0	0	0	0	6,592,370	0	7,753,277	14,345,647	0
St. Johns River Power Park/Northside Generating Station, Jacksonville, Duval	0	0	0	0	3,501,200	0	7,753,100	11,254,300	100
Tampa Electric Co. - Big Bend Station, Apollo Beach, Hillsborough	0	23	0	0	6,468,000	0	5,099,077	11,567,100	0
Gulf Power Co. - Plant Lansing Smith, Southport, Bay	0	0	0	0	0	0	4,704,767	4,704,767	0
Stanton Energy Complex, Orlando, Orange	0	0	0	0	5,364,000	0	3,336,867	8,700,867	0
Gainesville Regional Utilities Deerhaven Generating Station, Gainesville, Alachua	0	0	0	0	0	0	1,409,500	1,409,500	0
FPL Manatee Power Plant, Parrish, Manatee	0	0	0	0	0	0	1,010,001	1,010,001	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.





# 1999 Toxics Release Inventory

## GEORGIA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	57,186,011	65,954,422	123,140,433
Air Emissions	47,896,400	54,614,190	102,510,590
Surface Water Discharges	7,382,145	113,987	7,496,132
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	1,266	0	1,266
Other On-site Land Releases	1,906,200	11,226,245	13,132,445
Off-site Releases (Transfers Off-site to Disposal)*	3,764,266	19,582	3,783,848
<b>Total On- and Off-site Releases</b>	<b>60,950,277</b>	<b>65,974,004</b>	<b>126,924,281</b>
Recycled On-site	278,533,026	3,993,600	282,526,626
Recycled Off-site	53,538,883	119,185	53,658,068
Energy Recovery On-site	55,205,937	31,540	55,237,477
Energy Recovery Off-site	12,287,418	28,161	12,315,579
Treated On-site	157,728,920	292,505	158,021,425
Treated Off-site**	6,812,218	6,902	6,819,120
Quantity Released On- and Off-site***	65,295,118	65,976,205	131,271,323
<b>Total Production-related Waste Managed</b>	<b>629,401,520</b>	<b>70,448,098</b>	<b>699,849,618</b>
<b>Total Non-production-related Waste Managed</b>	<b>759,682</b>	<b>181</b>	<b>759,863</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	52,674,059	117,590	52,791,649
Energy Recovery	11,893,109	25,092	11,918,201
Treatment	4,758,594	21,700	4,780,294
Publicly Owned Treatment Works (POTWs)	4,320,560	35	4,320,595
Metals and Metal Compounds*	399,705	0	399,705
Non-metal TRI Chemicals**	3,920,855	35	3,920,890
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	8,912,839	19,627	8,932,466
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>82,559,161</b>	<b>184,044</b>	<b>82,743,205</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

Dr. Bert K. Langley  
(404) 656-6905  
Fax: (404) 657-7893  
E-mail: bert\_langley@mail.dhr.state.ga.us

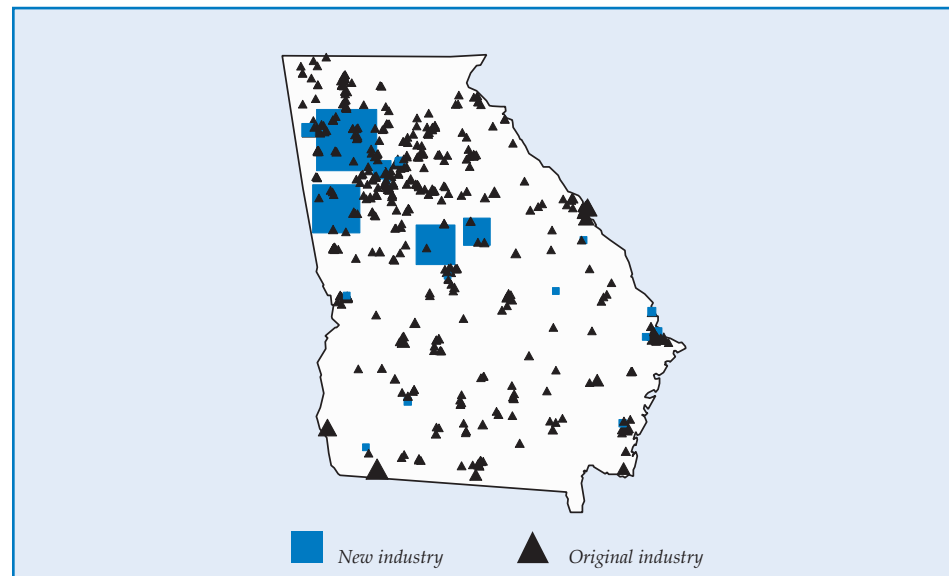
#### EPA Regional Contact:

Ezequiel Velez  
(404) 562-9191  
Fax: (404) 562-9163

#### To obtain TRI data use

assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531

Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Georgia. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	7,788,240
Square Miles	57,919
Total Facilities	746
Total Forms	2,539
Form As	645

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	14	16	19
Pounds	60,950,277	65,974,004	126,924,281
<b>National Rank for Total On-site Releases**</b>			
Rank	13	13	18
Pounds	57,186,011	65,954,422	123,140,433
<b>National Rank for Total Releases within State***</b>			
Rank	15	16	19
Pounds	60,112,931	66,164,639	126,277,570
<b>National Rank for Production-related Waste Managed</b>			
Rank	11	23	15
Pounds	629,401,520	70,448,098	699,849,618

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## GEORGIA

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
67-56-1	Methanol	12,474,260	165,758	0	12,994	106,263	12,759,275	1	100,576	10,090
7664-41-7	Ammonia	8,874,791	147,855	0	20,638	50,844	9,094,128	17,159	50,842	2
--	Nitrate compounds	8,038	6,096,711	0	374,046	54,865	6,533,660	51,000	54,585	280
--	Zinc compounds	95,544	143,385	0	107,351	4,176,631	4,522,911	146,510	564,837	3,611,794
1330-20-7	Xylene (mixed isomers)	3,206,766	45	0	0	90,718	3,297,529	588	1,173	89,545
100-42-5	Styrene	3,189,161	5	0	500	17,644	3,207,310	6,940	17,644	0
108-88-3	Toluene	2,531,229	648	0	0	33,560	2,565,437	10,773	2,922	30,638
7647-01-0	Hydrochloric acid	2,532,141	0	0	0	0	2,532,141	0	0	0
--	Manganese compounds	59,552	496,340	0	538,286	552,171	1,646,349	12,934	333,047	219,124
--	Lead compounds	17,210	707	0	5	1,327,065	1,344,987	19,322	83,103	1,243,962

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	45,997,737	0	0	0	0	45,997,737	0	0	0
--	Barium compounds	31,843	21,753	0	6,993,076	0	7,046,672	545	0	0
7664-93-9	Sulfuric acid	4,860,047	0	0	0	0	4,860,047	0	0	0
7664-39-3	Hydrogen fluoride	3,547,287	0	0	0	0	3,547,287	0	0	0
--	Copper compounds	5,862	41,608	0	774,837	0	822,307	670	0	0
--	Manganese compounds	9,489	25,169	0	748,464	0	783,122	256	0	0
--	Zinc compounds	18,644	15,449	0	675,936	840	710,869	530	840	0
--	Chromium compounds	7,613	3,045	0	641,683	23	652,364	1,134	0	23
--	Nickel compounds	6,847	5,731	0	546,179	0	558,757	30,795	0	0
--	Cobalt compounds	2,774	0	0	331,435	0	334,209	500	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## GEORGIA

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Inland Paperboard & Packaging Inc., Rome, Floyd	3,800,005	195,933	0	0	0	149,184	4,145,122	51,044	0
Engelhard Corp. Attapulgius Ops., Attapulgius, Decatur	3,011,401	1,121,343	0	0	0	0	4,132,744	0	0
DSM Chemicals N.A. Inc., Augusta, Richmond	460,151	2,663,358	0	0	0	0	3,123,509	3,429	0
Great Southern Paper Co., Cedar Springs, Early	2,587,581	63,906	0	0	0	316,489	2,967,976	0	0
Union Camp Corp., Savannah, Chatham	2,638,990	289,890	0	0	0	0	2,928,880	338,950	33,390
International Paper, Augusta, Richmond	1,601,930	230,875	0	0	0	254,120	2,086,925	0	0
GM MLCG Doraville Assembly Facility, Doraville, De Kalb	2,060,709	33	0	0	0	0	2,060,742	1,650	166,004
Georgia-Pacific Corp. Brunswick Ops., Brunswick, Glynn	1,742,351	120,584	0	0	0	40,421	1,903,356	0	0
PCS Nitrogen Fertilizer L.P., Augusta, Richmond	1,512,820	283,400	0	0	0	0	1,796,220	0	0
Riverwood Intl. Corp., Macon, Bibb	1,344,675	3,000	0	0	0	106,200	1,453,875	86,700	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Bowen Steam Electric Generating Plant, Cartersville, Bartow	19,053,526	13,848	0	0	0	984,570	20,051,944	0	46
Wansley Steam Electric Generating Plant, Roopville, Heard	13,851,667	5,967	0	0	0	1,353,600	15,211,234	0	0
Scherer Steam Electric Generating Plant, Juliette, Monroe	6,549,743	26,014	0	0	0	5,499,531	12,075,288	1	0
Branch Steam Electric Generating Plant, Milledgeville, Putnam	6,253,805	12,254	0	0	0	1,257,201	7,523,260	1	0
McDonough/Atkinson Steam Electric Generating Plant, Smyrna, Cobb	3,932,047	14,557	0	0	0	327,290	4,273,894	0	0
Yates Steam Electric Generating Plant, Newnan, Coweta	1,681,544	28,700	0	0	0	940,996	2,651,240	0	0
Hammond Steam Electric Generating Plant, Coosa, Floyd	1,613,661	3,147	0	0	0	701,593	2,318,401	0	0
Savannah Electric - Plant McIntosh, Rincon, Effingham	505,723	40	0	0	0	16,381	522,144	0	0
Arkwright Steam Electric Generating Plant, Macon, Bibb	346,822	15	0	0	0	22,930	369,767	0	0
Savannah Electric - Plant Kraft, Port Wentworth, Chatham	314,545	146	0	0	0	13,082	327,773	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## GEORGIA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Southwire Co., Carrollton, Carroll	0	1,073,188	0	103	3	82	4,529,070	5,602,446	656,289
Inland Paperboard & Packaging Inc., Rome, Floyd	0	0	17,924,000	0	2,907,200	0	4,191,143	25,022,343	7
Engelhard Corp. Attapulcus Ops., Attapulcus, Decatur	0	0	0	0	4,279	0	4,132,744	4,137,023	0
Union Camp Corp., Savannah, Chatham	158,330	0	2,838,330	263,030	6,084,690	33,360	3,267,030	12,644,770	0
DSM Chemicals N.A. Inc., Augusta, Richmond	1,589,867	0	2,197,080	28,937	11,098,595	31,652	3,132,507	18,078,638	0
Great Southern Paper Co., Cedar Springs, Early	2,800	0	90,030	0	5,467,270	2,000	2,995,100	8,557,200	0
GM MLCG Doraville Assembly Facility, Doraville, De Kalb	0	817,019	0	11,620	314,774	102,800	2,219,010	3,465,223	0
International Paper, Augusta, Richmond	0	0	107,700	0	16,911,670	0	2,082,150	19,101,520	0
Georgia-Pacific Corp. Brunswick Ops., Brunswick, Glynn	0	0	0	0	25,914,493	0	1,903,356	27,817,849	0
PCS Nitrogen Fertilizer L.P., Augusta, Richmond	0	0	0	0	0	0	1,796,320	1,796,320	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Bowen Steam Electric Generating Plant, Cartersville, Bartow	0	0	0	0	0	0	20,051,995	20,051,995	0
Wansley Steam Electric Generating Plant, Roopville, Heard	0	0	0	0	0	0	15,211,232	15,211,232	0
Scherer Steam Electric Generating Plant, Juliette, Monroe	0	0	0	0	0	0	12,075,291	12,075,291	0
Branch Steam Electric Generating Plant, Milledgeville, Putnam	0	0	0	0	0	0	7,523,261	7,523,261	0
McDonough/Atkinson Steam Electric Generating Plant, Smyrna, Cobb	0	0	0	0	0	0	4,273,895	4,273,895	0
Yates Steam Electric Generating Plant, Newnan, Coweta	0	0	0	0	0	0	2,651,239	2,651,239	0
Hammond Steam Electric Generating Plant, Coosa, Floyd	0	0	0	0	0	0	2,318,402	2,318,402	0
Savannah Electric - Plant McIntosh, Rincon, Effingham	0	0	0	0	0	0	522,144	522,144	0
Arkwright Steam Electric Generating Plant, Macon, Bibb	0	0	0	0	0	0	369,766	369,766	0
Savannah Electric - Plant Kraft, Port Wentworth, Chatham	0	0	0	0	0	0	327,773	327,773	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## GUAM

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	0	501,108	501,108
Air Emissions	0	501,016	501,016
Surface Water Discharges	0	25	25
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	67	67
Other On-site Land Releases	0	0	0
Off-site Releases (Transfers Off-site to Disposal)*	0	0	0
<b>Total On- and Off-site Releases</b>	0	501,108	501,108
Recycled On-site	0	0	0
Recycled Off-site	0	0	0
Energy Recovery On-site	0	0	0
Energy Recovery Off-site	0	0	0
Treated On-site	0	0	0
Treated Off-site**	0	67	67
Quantity Released On- and Off-site***	0	501,143	501,143
<b>Total Production-related Waste Managed</b>	0	501,210	501,210
<b>Total Non-production-related Waste Managed</b>	0	113	113

### Transfers Off-site for Further Waste Management/Disposal

Recycling	0	0	0
Energy Recovery	0	0	0
Treatment	0	0	0
Publicly Owned Treatment Works (POTWs)	0	0	0
Metals and Metal Compounds*	0	0	0
Non-metal TRI Chemicals**	0	0	0
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	0	0	0
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	0	0	0

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\*Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

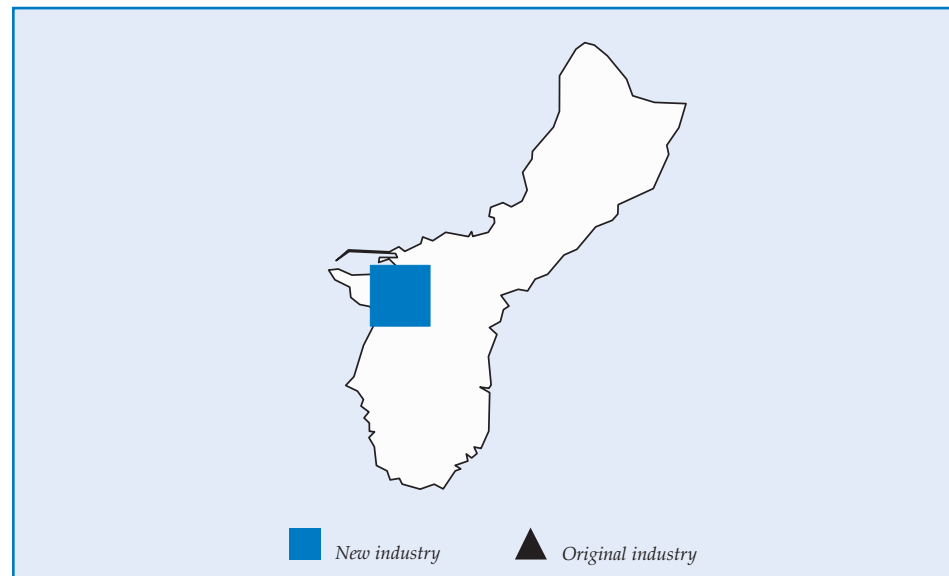
Conchita S.N. Taitano  
International (671) 646-8863  
Fax: (671) 477-9402  
E-mail: taitano@kuentos.guam.net

#### EPA Regional Contact:

Adam Browning  
(415) 744-1121  
Fax: (415) 744-1073  
E-mail: browning.adam@epa.gov

#### To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in Guam. All markers are proportionally-sized to represent the on-site releases at each facility within this territory.

### State/TRI Data

Population	151,968
Square Miles	210
Total Facilities	3
Total Forms	21
Form As	2

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	--	49	53
Pounds	0	501,108	501,108
<b>National Rank for Total On-site Releases**</b>			
Rank	--	49	52
Pounds	0	501,108	501,108
<b>National Rank for Total Releases within State***</b>			
Rank	--	49	53
Pounds	0	501,108	501,108
<b>National Rank for Production-related Waste Managed</b>			
Rank	--	50	53
Pounds	0	501,210	501,210

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## GUAM

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
110-54-3	n-Hexane	287,227	5	0	4	0	287,236	0	0	0
7782-50-5	Chlorine	84,161	0	0	0	0	84,161	0	0	0
95-63-6	1,2,4-Trimethylbenzene	31,710	0	0	4	0	31,714	0	0	0
108-88-3	Toluene	28,910	5	0	21	0	28,936	0	0	0
91-20-3	Naphthalene	18,287	0	0	14	0	18,301	0	0	0
108-95-2	Phenol	11,695	0	0	12	0	11,707	0	0	0
108-38-3	m-Xylene	10,979	0	0	3	0	10,982	0	0	0
95-47-6	o-Xylene	10,334	0	0	3	0	10,337	0	0	0
98-82-8	Cumene	3,840	0	0	2	0	3,842	0	0	0
85-01-8	Phenanthrene	3,492	0	0	0	0	3,492	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## GUAM

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	<u>Underground Injection</u>				<u>On-site Releases to Land</u>			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Shell Guam - Agat Terminal, Agat, Guam	495,587	0	0	0	67	0	495,654	0	0
Mobil Oil Cabras Island Terminal, Agana, Guam	5,429	25	0	0	0	0	5,454	0	0
U.S. Navy Public Works Center, Guam, Santa Rita, Guam	0	0	0	0	0	0	0	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.





# 1999 Toxics Release Inventory

## GUAM

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Shell Guam - Agat Terminal, Agat, Guam	0	0	0	0	0	67	495,714	495,781	113
Mobil Oil Cabras Island Terminal, Agana, Guam	0	0	0	0	0	0	5,429	5,429	0
U.S. Navy Public Works Center, Guam, Santa Rita, Guam	0	0	0	0	0	0	0	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## HAWAII

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	399,140	2,125,213	2,524,353
Air Emissions	353,488	2,124,851	2,478,339
Surface Water Discharges	2,489	292	2,781
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	5,065	5	5,070
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	38,098	65	38,163
Off-site Releases (Transfers Off-site to Disposal)*	1,993	48,445	50,438
<b>Total On- and Off-site Releases</b>	<b>401,133</b>	<b>2,173,658</b>	<b>2,574,791</b>
Recycled On-site	0	0	0
Recycled Off-site	4,138	0	4,138
Energy Recovery On-site	0	0	0
Energy Recovery Off-site	1,134	5	1,139
Treated On-site	3,353,850	9,500	3,363,350
Treated Off-site**	3,223	94	3,317
Quantity Released On- and Off-site***	575,178	2,167,719	2,742,897
<b>Total Production-related Waste Managed</b>	<b>3,937,523</b>	<b>2,177,318</b>	<b>6,114,841</b>
<b>Total Non-production-related Waste Managed</b>	<b>16</b>	<b>1,946</b>	<b>1,962</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	178,352	0	178,352
Energy Recovery	1,134	5	1,139
Treatment	3,218	766	3,984
Publicly Owned Treatment Works (POTWs)	0	0	0
Metals and Metal Compounds*	0	0	0
Non-metal TRI Chemicals**	0	0	0
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	1,993	48,445	50,438
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>184,697</b>	<b>49,216</b>	<b>233,913</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

Marsha Graf  
(808) 586-4249  
Fax: (808) 586-7537  
E-mail: [heer@eha.health.state.hi.us](mailto:heer@eha.health.state.hi.us)

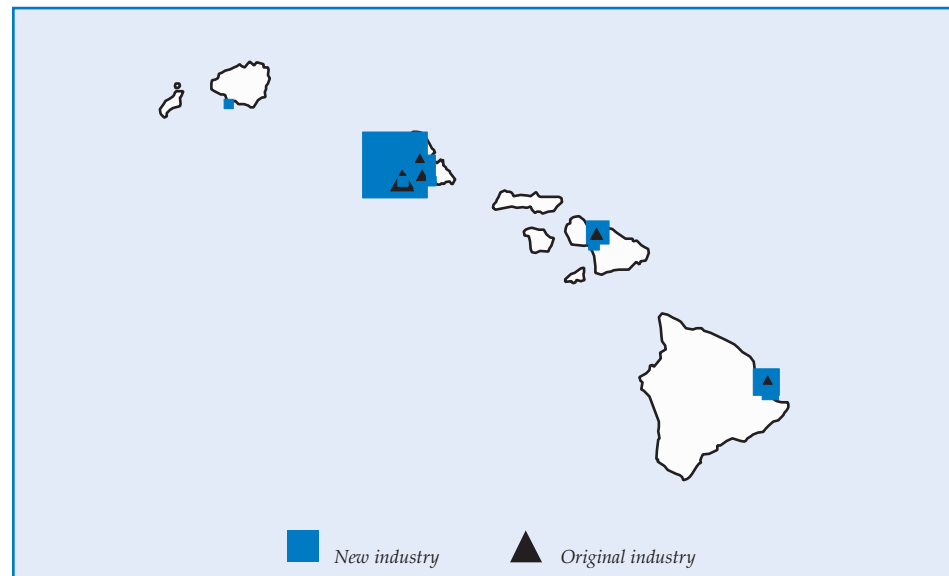
#### EPA Regional Contact:

Adam Browning  
(415) 744-1121  
Fax: (415) 744-1073

E-mail: [browning.adam@epa.gov](mailto:browning.adam@epa.gov)

#### To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Hawaii. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	1,185,497
Square Miles	6,423
Total Facilities	28
Total Forms	110
Form As	11

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	52	47	49
Pounds	401,133	2,173,658	2,574,791
<b>National Rank for Total On-site Releases**</b>			
Rank	52	47	49
Pounds	399,140	2,125,213	2,524,353
<b>National Rank for Total Releases within State***</b>			
Rank	52	47	49
Pounds	401,128	2,173,658	2,574,786
<b>National Rank for Production-related Waste Managed</b>			
Rank	50	48	51
Pounds	3,937,523	2,177,318	6,114,841

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## HAWAII

### On and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
115-07-1	Propylene	58,419	0	0	0	0	58,419	0	0	0
71-36-3	n-Butyl alcohol	58,000	0	0	0	0	58,000	0	0	0
110-54-3	n-Hexane	56,691	30	0	0	380	57,101	0	380	0
7664-41-7	Ammonia	8,825	1,630	5,065	37,599	0	53,119	0	0	0
--	Glycol ethers	50,000	0	0	0	0	50,000	0	0	0
7664-93-9	Sulfuric acid	23,521	0	0	0	0	23,521	0	0	0
74-85-1	Ethylene	21,824	0	0	0	0	21,824	0	0	0
71-43-2	Benzene	15,279	30	0	0	51	15,360	0	51	0
1330-20-7	Xylene (mixed isomers)	14,918	0	0	0	240	15,158	0	240	0
108-88-3	Toluene	14,208	30	0	0	135	14,373	0	135	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-93-9	Sulfuric acid	1,656,625	0	0	0	0	1,656,625	0	0	0
7647-01-0	Hydrochloric acid	333,000	0	0	0	0	333,000	0	0	0
--	Nickel compounds	58,900	0	5	0	4,445	63,350	0	4,445	0
--	Zinc compounds	400	0	0	0	44,000	44,400	0	44,000	0
7664-41-7	Ammonia	19,055	0	0	0	0	19,055	0	0	0
110-54-3	n-Hexane	14,519	153	0	0	0	14,672	0	0	0
108-88-3	Toluene	13,392	25	0	16	0	13,433	0	0	0
71-43-2	Benzene	8,963	82	0	2	0	9,047	0	0	0
95-63-6	1,2,4-Trimethylbenzene	8,625	2	0	17	0	8,644	0	0	0
1330-20-7	Xylene (mixed isomers)	6,005	30	0	26	0	6,061	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## HAWAII

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Chevron Prods. Co. - Hawaii Refy., Kapolei, Honolulu	158,745	1,990	0	0	0	0	160,735	1,690	5
Ball Metal Beverage Container Corp., Kapolei, Honolulu	93,053	0	0	0	0	0	93,053	0	0
Tesoro Hawaii Refy., Kapolei, Honolulu	74,080	0	0	5,065	0	0	79,145	298	0
Maui Pineapple Co. Ltd., Kahului, Maui	0	0	0	0	0	37,599	37,599	0	0
Pearl Harbor Naval Complex, Pearl Harbor, Honolulu	27,590	0	0	0	0	0	27,590	0	0
U.S. Army Schofield Barracks U.S. DOD, Wahiawa, Honolulu	15	499	0	0	0	499	1,013	0	0
BEI - Brewer Environmental Ind. Inc.- Hilo, Hilo, Hawaii	5	0	0	0	0	0	5	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Kahe Generating Station, Waianae, Honolulu	852,000	0	0	0	0	0	852,000	250	0
Waiau Generating Station, Pearl City, Honolulu	337,000	0	0	0	0	0	337,000	0	0
Hawaii Electric Light Co.Inc.Hill Generating Station, Hilo, Hawaii	280,000	0	0	0	0	0	280,000	0	0
Kahului Generating Station, Kahului, Maui	230,000	0	0	0	0	0	230,000	0	0
Hawaii Electric Light Co.Inc. Puna Generating Station, Keaau, Hawaii	136,000	0	0	0	0	0	136,000	0	0
Hawaii Electric Light Co.Inc. Shipman Generating Station, Hilo, Hawaii	67,000	0	0	0	0	0	67,000	0	0
Maalaea Generating Station, Wailuku, Maui	51,000	0	0	0	0	0	51,000	0	0
AES Hawaii Generation Plant, Kapolei, Honolulu	38,284	0	0	0	0	0	38,284	44,000	0
Tosco Distribution West Honolulu Terminal, Honolulu, Honolulu	36,847	0	0	0	0	0	36,847	0	0
Kauai Electric, Eleele, Kauai	30,425	0	0	0	0	0	30,425	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## HAWAII

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
U.S. Army Schofield Barracks U.S. DOD, Wahiawa, Honolulu	0	4,138	0	0	0	0	175,227	179,365	0
Chevron Prods. Co. - Hawaii Refy., Kapolei, Honolulu	0	0	0	0	223,888	3,165	162,847	389,900	16
Ball Metal Beverage Container Corp., Kapolei, Honolulu	0	0	0	0	57,000	0	93,053	150,053	0
Tesoro Hawaii Refy., Kapolei, Honolulu	0	0	0	864	3,072,962	58	79,442	3,153,326	0
Maui Pineapple Co. Ltd., Kahului, Maui	0	0	0	0	0	0	37,599	37,599	0
Pearl Harbor Naval Complex, Pearl Harbor, Honolulu	0	0	0	270	0	0	27,000	27,270	0
BEI - Brewer Environmental Ind. Inc.- Hilo, Hilo, Hawaii	0	0	0	0	0	0	10	10	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Kahe Generating Station, Waianae, Honolulu	0	0	0	0	0	0	851,000	851,000	0
Waiau Generating Station, Pearl City, Honolulu	0	0	0	0	0	0	337,000	337,000	0
Hawaii Electric Light Co.Inc.Hill Generating Station, Hilo, Hawaii	0	0	0	0	0	0	280,000	280,000	0
Kahului Generating Station, Kahului, Maui	0	0	0	0	0	0	230,000	230,000	0
Hawaii Electric Light Co.Inc. Puna Generating Station, Keaau, Hawaii	0	0	0	0	0	0	136,000	136,000	0
AES Hawaii Generation Plant, Kapolei, Honolulu	0	0	0	0	0	0	82,300	82,300	0
Hawaii Electric Light Co.Inc. Shipman Generating Station, Hilo, Hawaii	0	0	0	0	0	0	67,000	67,000	0
Maalaea Generating Station, Wailuku, Maui	0	0	0	0	0	0	51,000	51,000	0
Tosco Distribution West Honolulu Terminal, Honolulu, Honolulu	0	0	0	0	0	0	36,843	36,843	1
Kauai Electric, Elelee, Kauai	0	0	0	0	0	0	30,425	30,425	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## IDAHO

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	26,181,729	59,458,846	85,640,575
Air Emissions	6,389,268	33,298	6,422,566
Surface Water Discharges	7,592,735	11,526	7,604,261
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	24,031,000	24,031,000
Other On-site Land Releases	12,199,726	35,383,022	47,582,748
Off-site Releases (Transfers Off-site to Disposal)*	335,715	49	335,764
<b>Total On- and Off-site Releases</b>	<b>26,517,444</b>	<b>59,458,895</b>	<b>85,976,339</b>
Recycled On-site	3,560,115	832	3,560,947
Recycled Off-site	1,486,153	8,920	1,495,073
Energy Recovery On-site	15,930	0	15,930
Energy Recovery Off-site	122,350	0	122,350
Treated On-site	21,887,183	164,839	22,052,022
Treated Off-site**	971,300	326	971,626
Quantity Released On- and Off-site***	26,435,137	64,998,744	91,433,881
<b>Total Production-related Waste Managed</b>	<b>54,478,168</b>	<b>65,173,661</b>	<b>119,651,829</b>
<b>Total Non-production-related Waste Managed</b>	<b>241</b>	<b>105</b>	<b>346</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	1,493,948	8,920	1,502,868
Energy Recovery	119,136	0	119,136
Treatment	24,491	326	24,817
Publicly Owned Treatment Works (POTWs)	836,512	0	836,512
Metals and Metal Compounds*	537	0	537
Non-metal TRI Chemicals**	835,975	0	835,975
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	451,367	49	451,416
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>2,925,454</b>	<b>9,295</b>	<b>2,934,749</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

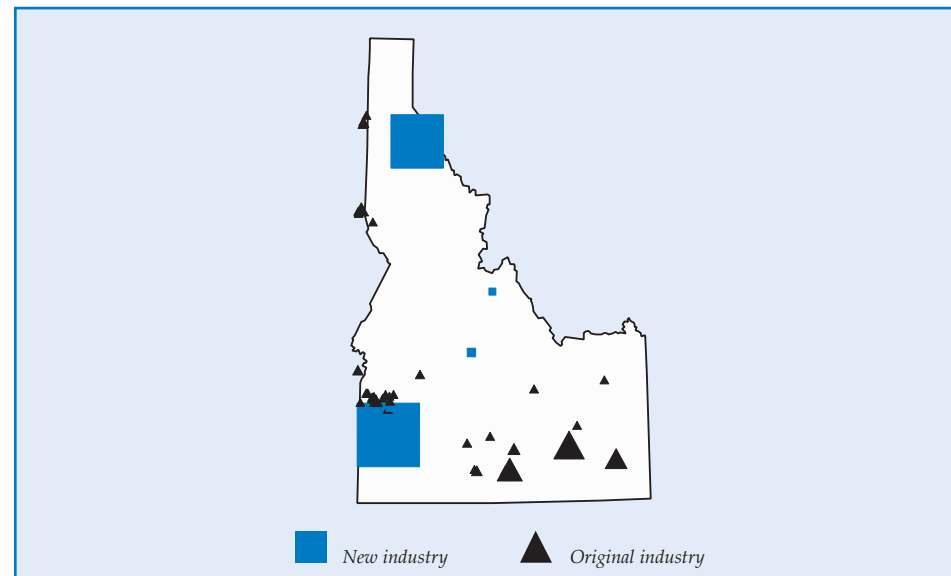
#### State Contact:

Bill Bishop  
(208) 422-5726  
Fax: (208) 422-4485  
E-mail: [bbishop@bds.state.id.us](mailto:bbishop@bds.state.id.us)

#### EPA Regional Contact:

Christina Colt  
(206) 553-4016  
Fax: (206) 553-8509  
E-mail: [colt.christina@epa.gov](mailto:colt.christina@epa.gov)

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Idaho. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	1,251,700
Square Miles	82,751
Total Facilities	72
Total Forms	258
Form As	36

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	27	19	22
Pounds	26,517,444	59,458,895	85,976,339
<b>National Rank for Total On-site Releases**</b>			
Rank	26	17	22
Pounds	26,181,729	59,458,846	85,640,575
<b>National Rank for Total Releases within State***</b>			
Rank	19	19	20
Pounds	48,684,885	59,458,849	108,143,734
<b>National Rank for Production-related Waste Managed</b>			
Rank	44	25	39
Pounds	54,478,168	65,173,661	119,651,829

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## IDAHO

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Nitrate compounds	0	7,427,697	0	252,830	132,485	7,813,012	300	131,219	1,266
--	Zinc compounds	66,680	3,839	0	4,325,520	500	4,396,539	17,437,899	0	500
7664-41-7	Ammonia	3,535,422	2,242	0	232,100	797	3,770,561	0	797	0
7723-14-0	Phosphorus (yellow or white)	280	0	0	2,715,468	0	2,715,748	0	0	0
--	Chromium compounds	9,200	12	0	2,528,360	10	2,537,582	176,962	0	10
67-56-1	Methanol	816,200	47,760	0	17,120	0	881,080	250	0	0
--	Manganese compounds	1,150	85,820	0	416,330	10	503,310	2,511,572	0	10
--	Cadmium compounds	3,221	12	0	469,610	10	472,853	21,080	0	10
--	Copper compounds	598	91	0	404,970	403	406,062	210,410	14,318	10
108-88-3	Toluene	310,678	0	0	0	0	310,678	250	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Manganese compounds	714	7,186	0	22,524,119	0	22,532,019	0	0	0
7440-66-6	Zinc (fume or dust)	2,150	0	0	19,000,000	0	19,002,150	0	0	0
--	Lead compounds	869	1,036	0	6,520,282	24	6,522,211	3	0	24
--	Zinc compounds	45	1,117	0	4,244,978	0	4,246,140	0	0	0
7439-92-1	Lead	255	0	0	2,300,000	5	2,300,260	0	0	5
7439-96-5	Manganese	255	0	0	1,800,000	0	1,800,255	0	0	0
--	Arsenic compounds	1,941	426	0	1,192,919	0	1,195,286	0	0	0
7440-50-8	Copper	255	0	0	470,000	0	470,255	0	0	0
--	Antimony compounds	20	1,483	0	380,325	0	381,828	0	0	0
--	Copper compounds	40	187	0	240,488	0	240,715	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.





# 1999 Toxics Release Inventory

## IDAHO

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
FMC Corp., Pocatello, Bannock	238,776	1,199	0	0	0	7,211,031	7,451,006	0	570
J. R. Simpolot Co. Heyburn Food Group, Heyburn, Minidoka	9,340	5,585,265	0	0	0	0	5,594,605	0	0
P4 Production L.L.C., Soda Springs, Caribou	181,254	295	0	0	0	4,297,037	4,478,586	0	0
Potlach Corp. Idaho Pulp & Paperboard Div., Lewiston, Nez Perce	1,528,230	224,465	0	0	0	199,700	1,952,395	0	0
Conagra Beef Co., Nampa, Canyon	5,761	1,333,464	0	0	0	0	1,339,225	1,016	0
Amalgamated Sugar Co. L.L.C., Paul, Minidoka	1,107,979	0	0	0	0	2,865	1,110,844	0	0
Amalgamated Sugar Co. L.L.C., Nampa, Canyon	766,151	0	0	0	0	17,376	783,527	0	0
Amalgamated Sugar Co. L.L.C., Twin Falls, Twin Falls	640,553	0	0	0	0	5,227	645,780	0	0
J. R. Simplot Co. Don Siding, Pocatello, Power	524,880	0	0	0	0	90,000	614,880	0	0
Woodgrain Millwork Inc., Millwork & Prefinish Divisions, Fruitland, Payette	580,660	0	0	0	0	0	580,660	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Envirosafe Services of Idaho Inc., Grand View, Owyhee	3,205	0	0	0	24,031,000	0	24,034,205	0	25
Hecla Mining Co. Lucky Friday Mine, Mullan, Shoshone	382	4,809	0	0	0	19,724,968	19,730,159	0	24
Coeur Silver Valley, Wallace, Shoshone	318	2,409	0	0	0	8,062,348	8,065,075	0	0
Sunshine Mine, Kellogg, Shoshone	1,255	4,047	0	0	0	6,966,110	6,971,412	0	0
Thompson Creek Mining Co., Clayton, Custer	9	6	0	0	0	629,550	629,565	0	0
Northwest Terminalling Co. (Boise), Boise, Ada	26,455	0	0	0	0	0	26,455	0	0
Meridian Gold Co.Beartrack Mine, Salmon, Lemhi	1,674	255	0	0	0	46	1,975	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## IDAHO

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
FMC Corp., Pocatello, Bannock	0	0	0	0	884,428	0	7,452,323	8,336,751	0
J. R. Simplot Co. Heyburn Food Group, Heyburn, Minidoka	0	0	0	0	0	0	5,592,605	5,592,605	0
P4 Production L.L.C., Soda Springs, Caribou	0	0	0	0	3,547,000	0	4,402,460	7,949,460	0
Potlatch Corp. Idaho Pulp & Paperboard Div., Lewiston, Nez Perce	0	0	15,930	0	11,347,390	0	1,950,880	13,314,200	84
Conagra Beef Co., Nampa, Canyon	0	1,017	0	0	41,704	0	1,338,641	1,381,362	0
Amalgamated Sugar Co. L.L.C., Paul, Minidoka	0	0	0	0	0	0	1,110,844	1,110,844	0
Amalgamated Sugar Co. L.L.C., Nampa, Canyon	0	0	0	0	0	4,568	788,095	792,663	0
Amalgamated Sugar Co. L.L.C., Twin Falls, Twin Falls	0	0	0	0	0	0	645,780	645,780	0
J. R. Simplot Co. Don Siding, Pocatello, Power	0	33,000	0	0	0	400	614,880	648,280	0
Woodgrain Millwork Inc., Millwork & Prefinish Divisions, Fruitland, Payette	26,667	0	0	63,999	0	0	580,660	671,326	5

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Envirosafe Services of Idaho Inc., Grand View, Owyhee	0	0	0	0	0	0	24,031,000	24,031,000	0
Hecla Mining Co. Lucky Friday Mine, Mullan, Shoshone	0	8,920	0	0	0	0	19,730,159	19,739,079	6
Coeur Silver Valley, Wallace, Shoshone	0	0	0	0	0	0	8,065,075	8,065,075	0
Sunshine Mine, Kellogg, Shoshone	0	0	0	0	0	0	6,967,200	6,967,200	0
Meridian Gold Co. Beartrack Mine, Salmon, Lemhi	832	0	0	0	0	0	5,549,287	5,550,119	0
Thompson Creek Mining Co., Clayton, Custer	0	0	0	0	0	0	629,565	629,565	0
Northwest Terminalling Co. (Boise), Boise, Ada	0	0	0	0	164,839	326	26,458	191,623	99

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## ILLINOIS

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	75,498,437	62,088,608	137,587,045
Air Emissions	50,371,772	34,760,045	85,131,817
Surface Water Discharges	6,459,380	252,632	6,712,012
Underground Injection Class I Wells	1,200	0	1,200
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	7,572,117	18,737,524	26,309,641
Other On-site Land Releases	11,093,968	8,338,407	19,432,375
Off-site Releases (Transfers Off-site to Disposal)*	20,375,384	7,092,468	27,467,852
<b>Total On- and Off-site Releases</b>	<b>95,873,821</b>	<b>69,181,076</b>	<b>165,054,897</b>
Recycled On-site	970,752,375	6,571,016	977,323,391
Recycled Off-site	93,996,116	569,583	94,565,699
Energy Recovery On-site	29,329,613	0	29,329,613
Energy Recovery Off-site	29,891,613	8,277,652	38,169,265
Treated On-site	190,430,501	41,432,426	231,862,927
Treated Off-site**	17,462,059	1,911,059	19,373,118
Quantity Released On- and Off-site***	106,718,228	69,424,350	176,142,578
<b>Total Production-related Waste Managed</b>	<b>1,438,580,505</b>	<b>128,186,086</b>	<b>1,566,766,591</b>
<b>Total Non-production-related Waste Managed</b>	<b>529,536</b>	<b>302,377</b>	<b>831,913</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	90,067,804	543,759	90,611,563
Energy Recovery	27,691,634	8,293,820	35,985,454
Treatment	8,089,341	1,194,782	9,284,123
Publicly Owned Treatment Works (POTWs)	12,881,695	801,133	13,682,828
Metals and Metal Compounds*	133,921	43,547	177,468
Non-metal TRI Chemicals**	12,747,774	757,586	13,505,360
Other Off-site Transfers***	1,618	0	1,618
Off-site Transfers to Disposal (not including metals to POTWs)	32,651,858	7,593,852	40,245,710
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>171,383,950</b>	<b>18,427,346</b>	<b>189,811,296</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

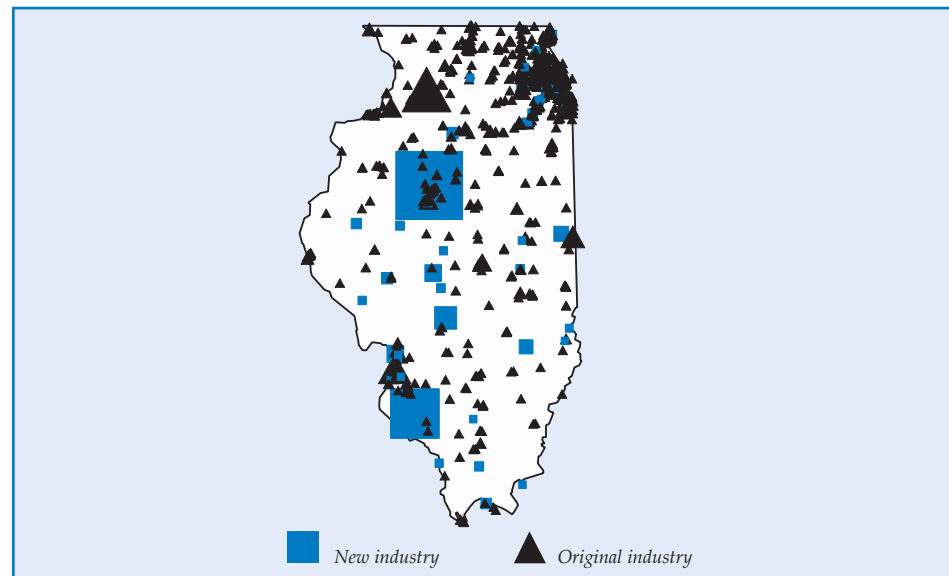
#### State Contact:

Stan Ostrem  
(217) 785-5735  
Fax: (217) 782-1431  
E-mail: epa8579@epa.state.il.us

#### EPA Regional Contact:

Thelma Codina  
(312) 886-6219  
Fax: (312) 353-4788  
E-mail: codina.thelma@epa.gov

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Illinois. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	12,128,370
Square Miles	55,593
Total Facilities	1,321
Total Forms	4,899
Form As	762

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	6	15	10
Pounds	95,873,821	69,181,076	165,054,897
<b>National Rank for Total On-site Releases**</b>			
Rank	7	16	13
Pounds	75,498,437	62,088,608	137,587,045
<b>National Rank for Total Releases within State***</b>			
Rank	6	15	10
Pounds	109,096,445	69,877,571	178,974,016
<b>National Rank for Production-related Waste Managed</b>			
Rank	3	11	3
Pounds	1,438,580,505	128,186,086	1,566,766,591

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

# ILLINOIS

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Zinc compounds	654,647	12,123	1,200	12,100,033	10,097,591	22,865,594	11,043,498	10,750,510	4,386,261
110-54-3	n-Hexane	7,830,708	2,600	0	504	10	7,833,822	642	5	5
--	Nitrate compounds	8,196	6,243,853	0	179,021	284,418	6,715,488	49,475	232,418	52,000
--	Manganese compounds	85,542	5,769	0	3,301,530	3,007,386	6,400,227	1,701,756	2,752,115	973,067
7664-41-7	Ammonia	4,699,049	69,382	0	11,995	266,365	5,046,791	40	11,804	254,561
108-88-3	Toluene	3,732,423	576	0	304	34,906	3,768,209	10,574	13,325	21,581
75-15-0	Carbon disulfide	3,501,856	1,613	0	0	15	3,503,484	0	15	0
85-44-9	Phthalic anhydride	144,224	0	0	0	2,828,442	2,972,666	10,395	2,821,052	7,390
7647-01-0	Hydrochloric acid	2,612,891	0	0	0	750	2,613,641	338	750	0
100-42-5	Styrene	2,396,261	24	0	250	174,083	2,570,618	1,900	149,322	24,761

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	26,417,766	0	0	0	0	26,417,766	0	0	0
--	Zinc compounds	95,382	21,701	0	16,006,413	1,241,808	17,365,304	48,523	1,001,782	282,647
7664-93-9	Sulfuric acid	5,445,565	0	0	0	0	5,445,565	0	0	0
--	Manganese compounds	24,269	49,747	0	3,453,759	1,845,785	5,373,560	33,063	1,838,110	15,484
--	Barium compounds	149,053	125,846	0	3,403,768	1,321,151	4,999,818	947,957	1,305,851	26,328
7664-39-3	Hydrogen fluoride	2,320,409	0	0	0	1,396	2,321,805	0	316	1,080
--	Lead compounds	2,895	5,904	0	1,670,906	240,518	1,920,223	66,653	216,890	86,539
--	Chromium compounds	5,356	428	0	508,209	1,070,887	1,584,880	13,417	928,753	156,435
--	Copper compounds	5,747	8,637	0	465,666	400,829	880,879	29,880	375,951	44,928
--	Nickel compounds	5,745	13,665	0	382,103	320,732	722,245	3,886	300,683	51,373

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## ILLINOIS

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Northwestern Steel & Wire Co., Sterling, Whiteside	117,250	12,450	0	0	7,570,000	2,217,000	9,916,700	89,320	0
Granite City Steel, Granite City, Madison	208,180	163,090	0	0	0	5,402,885	5,774,155	0	4
Devro-Teepak, Danville, Vermilion	3,644,096	0	0	0	0	0	3,644,096	0	0
IBP Inc., Joslin, Rock Island	22,090	3,001,390	0	0	0	1,660	3,025,140	13,135	250
Williams Ethanol Services Inc., Pekin, Tazewell	500,595	1,289,021	0	0	0	616,110	2,405,726	69,914	0
ADM Bioproducts, Decatur, Macon	2,402,450	0	0	0	0	0	2,402,450	0	0
Tosco Woodriver Refy., Roxana, Madison	1,795,124	196,755	0	0	0	0	1,991,879	11,864	10,845
ADM, Decatur, Macon	1,740,151	0	0	0	0	0	1,740,151	0	0
ADM, Decatur West Plant, Decatur, Macon	1,450,000	0	0	0	0	0	1,450,000	250	0
Corn Prods. Argo Plant, Bedford Park, Cook	1,324,760	0	0	0	0	0	1,324,760	0	5

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Peoria Disposal Co. #1, Peoria, Peoria	542	1	0	0	18,731,900	0	18,732,443	12	5
Baldwin Power Station, Baldwin, Randolph	11,751,479	168,629	0	0	0	1,091,600	13,011,708	0	0
Ameren Corp.Coffeen Power Station, Coffeen, Montgomery	4,625,677	896	0	0	0	0	4,626,573	367,500	0
AES Edwards Generation Plant, Bartonville, Peoria	2,823,489	0	0	0	0	384,382	3,207,871	102,473	0
Illinova Corp. Wood River Power Station, Alton, Madison	2,756,400	20,480	0	0	0	159,600	2,936,480	0	0
City Water Light & Power City of Springfield, Springfield, Sangamon	2,826,899	0	0	0	196	67,000	2,894,095	0	0
Vermilion Power Station, Oakwood, Vermilion	2,206,295	5,030	0	0	0	110,000	2,321,325	0	0
Ameren Corp. Newton Power Station, Newton, Jasper	300,264	944	0	0	0	1,703,000	2,004,208	0	0
Freeman United Coal Mining Co. Crown 3 Mine, Farmersville, Montgomery	5	0	0	0	0	1,521,938	1,521,943	0	0
Hennepin Power Station, Hennepin, Putnam	1,222,365	1,180	0	0	0	3,480	1,227,025	84,000	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## ILLINOIS

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Northwestern Steel & Wire Co., Sterling, Whiteside	0	0	0	0	160,000	0	10,050,000	10,210,000	0
Keystone Steel & Wire Co., Peoria, Peoria	0	390,000	0	0	0	0	6,598,000	6,988,000	72,130
Granite City Steel, Granite City, Madison	0	0	0	0	5,806,101	8	5,755,101	11,561,210	27
Birmingham Steel Corp., Kankakee Illinois Steel Div., Bourbonnais, Kankakee	0	0	0	0	0	0	5,170,044	5,170,044	1
Devro-Teepak, Danville, Vermilion	0	0	0	0	0	51,864	3,644,096	3,695,960	0
Koppers Inds. Inc., Cicero, Cook	845,527	28,684	0	10,014	18,720,523	26,654	3,157,307	22,788,709	0
IBP Inc., Joslin, Rock Island	0	53,000	0	0	205,032	0	3,037,190	3,295,222	2
ADM Corn Processing, Decatur, Macon	0	158,000	0	0	459,190	446,297	2,432,819	3,496,306	0
ADM Bioproducts, Decatur, Macon	53,000,000	2,000,000	0	0	0	330,000	2,400,200	57,730,200	1,506
Royster-Clark Nitrogen, East Dubuque, Jo Daviess	0	0	0	0	0	0	2,345,760	2,345,760	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Peoria Disposal Co. #1, Peoria, Peoria	0	0	0	0	0	0	18,731,900	18,731,900	0
Baldwin Power Station, Baldwin, Randolph	0	0	0	0	3,927,000	0	13,007,400	16,934,400	0
Ameren Corp. Coffeen Power Station, Coffeen, Montgomery	0	0	0	0	2,396,000	0	5,001,000	7,397,000	0
AES Edwards Generation Plant, Bartonville, Peoria	0	0	0	0	940,771	0	3,310,344	4,251,115	0
Illinova Corp. Wood River Power Station, Alton, Madison	0	0	0	0	38,200	0	2,931,235	2,969,435	0
City Water Light & Power City of Springfield, Springfield, Sangamon	0	0	0	0	2,680,000	0	2,894,000	5,574,000	0
Vermilion Power Station, Oakwood, Vermilion	0	0	0	0	197,000	0	2,322,000	2,519,000	0
Ameren Corp. Newton Power Station, Newton, Jasper	0	0	0	0	400,000	0	1,990,000	2,390,000	0
Envirite of Illinois Inc., Harvey, Cook	0	25,266	0	0	45,000	0	1,937,850	2,008,116	0
American Minerals Inc., Rosiclare, Hardin	0	0	0	0	0	0	1,707,016	1,707,016	6

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## INDIANA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	75,313,277	64,881,108	140,194,385
Air Emissions	52,122,195	48,132,347	100,254,542
Surface Water Discharges	6,749,598	145,397	6,894,995
Underground Injection Class I Wells	890,265	0	890,265
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	1,975,358	0	1,975,358
Other On-site Land Releases	13,575,861	16,603,364	30,179,225
Off-site Releases (Transfers Off-site to Disposal)*	50,468,571	8,207,756	58,676,327
<b>Total On- and Off-site Releases</b>	<b>125,781,848</b>	<b>73,088,864</b>	<b>198,870,712</b>
Recycled On-site	149,429,156	10,454,806	159,883,962
Recycled Off-site	152,244,644	1,067,953	153,312,597
Energy Recovery On-site	144,380,707	0	144,380,707
Energy Recovery Off-site	10,726,323	2,582,765	13,309,088
Treated On-site	137,237,418	44,032,157	181,269,575
Treated Off-site**	17,946,799	115,091	18,061,890
Quantity Released On- and Off-site***	132,390,616	71,945,422	204,336,038
<b>Total Production-related Waste Managed</b>	<b>744,355,663</b>	<b>130,198,194</b>	<b>874,553,857</b>
<b>Total Non-production-related Waste Managed</b>	<b>362,176</b>	<b>229</b>	<b>362,405</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	157,282,502	1,037,080	158,319,582
Energy Recovery	11,163,047	2,581,368	13,744,415
Treatment	9,433,773	142,945	9,576,718
Publicly Owned Treatment Works (POTWs)	10,768,504	30,335	10,798,839
Metals and Metal Compounds*	84,690	2,160	86,850
Non-metal TRI Chemicals**	10,683,814	28,175	10,711,989
Other Off-site Transfers***	3,611	0	3,611
Off-site Transfers to Disposal (not including metals to POTWs)	59,193,786	8,209,615	67,403,401
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>247,845,223</b>	<b>12,001,343</b>	<b>259,846,566</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

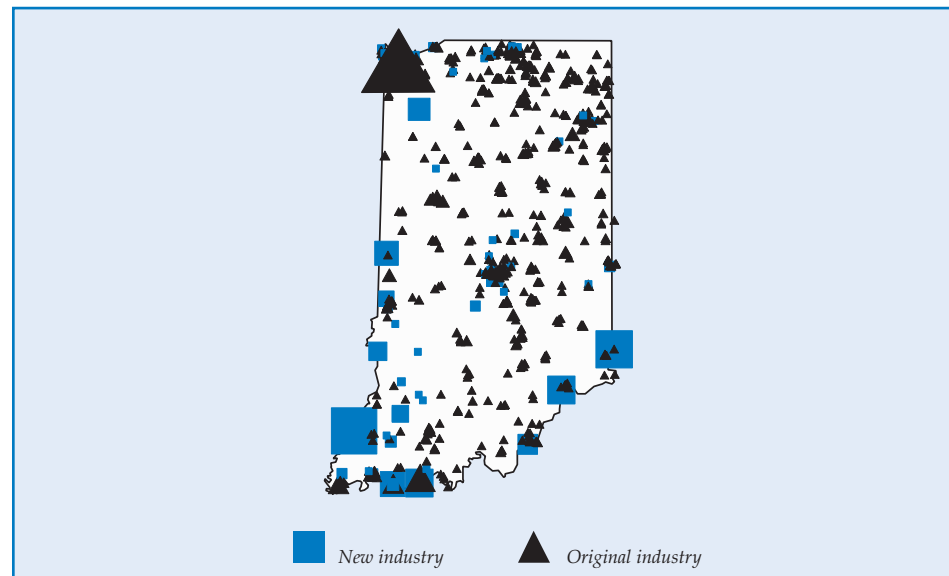
#### State Contact:

John B. Chavez  
(317) 232-6661  
Fax: (317) 233-5627  
E-mail: jchavez@dem.state.in.us

#### EPA Regional Contact:

Thelma Codina  
(312) 886-6219  
Fax: (312) 353-4788  
E-mail: codina.thelma@epa.gov

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Indiana. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	5,942,901
Square Miles	35,870
Total Facilities	1,041
Total Forms	3,795
Form As	468

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	5	11	9
Pounds	125,781,848	73,088,864	198,870,712
<b>National Rank for Total On-site Releases**</b>			
Rank	8	14	12
Pounds	75,313,277	64,881,108	140,194,385
<b>National Rank for Total Releases within State***</b>			
Rank	5	13	9
Pounds	110,685,724	71,614,614	182,300,338
<b>National Rank for Production-related Waste Managed</b>			
Rank	8	10	11
Pounds	744,355,663	130,198,194	874,553,857

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.





# 1999 Toxics Release Inventory

## INDIANA

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Zinc compounds	631,520	40,046	0	11,239,078	19,111,346	31,021,990	526,313	17,460,396	1,652,178
7440-66-6	Zinc (fume or dust)	45,501	0	0	1,331,600	14,022,905	15,400,006	34,475	130,379	13,892,526
7429-90-5	Aluminum (fume or dust)	206,465	260	0	68,509	7,534,369	7,809,603	486,956	1,272,364	6,262,005
100-42-5	Styrene	6,275,157	250	0	126,446	246,867	6,648,720	2,838	238,833	8,034
108-88-3	Toluene	6,165,824	363	0	5,771	176,160	6,348,118	945	151,158	25,498
--	Manganese compounds	121,429	24,979	7,100	1,147,062	4,788,219	6,088,789	27,560	4,510,726	277,493
--	Nitrate compounds	1,563	6,022,222	0	23,957	12,462	6,060,204	52,254	7,468	4,994
1330-20-7	Xylene (mixed isomers)	5,417,087	467	0	3,081	75,543	5,496,178	2,704	62,305	13,737
75-09-2	Dichloromethane	4,572,575	365	0	5	17	4,572,962	1,312	0	17
7664-41-7	Ammonia	2,478,278	68,964	679,265	16,429	153,008	3,395,944	1,603	18,057	134,951

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	28,632,576	0	0	0	0	28,632,576	0	0	0
7664-93-9	Sulfuric acid	14,439,477	0	0	0	0	14,439,477	0	0	0
--	Barium compounds	211,934	51,621	0	6,451,283	965,781	7,680,619	138	599,775	366,006
--	Zinc compounds	170,334	16,518	0	2,903,652	1,330,053	4,420,557	42,898	1,289,577	40,476
7664-39-3	Hydrogen fluoride	3,156,655	0	0	0	0	3,156,655	1	0	0
7440-02-0	Nickel	5	5	0	0	2,714,225	2,714,235	65,226	1,500,925	1,213,300
--	Manganese compounds	18,627	11,827	0	2,103,097	239,733	2,373,284	17	229,231	10,502
--	Nickel compounds	11,750	10,849	0	1,424,831	89,236	1,536,666	1,890	89,236	0
--	Chromium compounds	10,502	4,239	0	1,053,939	96,817	1,165,497	31,171	96,249	568
--	Copper compounds	37,107	7,518	0	1,001,704	75,518	1,121,847	2,873	75,518	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## INDIANA

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
USS Gary Works, Gary, Lake	2,166,746	36,712	0	0	0	12,043,800	14,247,258	251,950	572,950
AK Steel Corp., Rockport, Spencer	16,018	4,463,470	0	0	0	0	4,479,488	237,882	1,000
Alcoa Inc. - Warrick Ops., Newburgh, Warrick	2,515,892	23,221	0	0	0	21,687	2,560,800	166,901	224
GE Plastics Mt. Vernon Inc., Mount Vernon, Posey	2,434,857	88,504	0	0	0	0	2,523,361	185,552	0
Bethlehem Steel Corp. Burns Harbor Div., Burns Harbor, Porter	386,135	59,900	681,000	0	0	552,650	1,679,685	0	69,130
Sequa Coatings Corp., Precoat Metals Div., Portage, Porter	1,652,684	0	0	0	0	0	1,652,684	13,286	70
GMTG Fort Wayne Assembly, Roanoke, Allen	1,265,303	0	0	0	0	0	1,265,303	1,220	9,610
Clinton Labs., Clinton, Vermillion	1,100,190	21,925	0	0	0	34,885	1,157,000	728,550	250
Beta Steel Corp., Portage, Porter	5,600	0	0	0	1,140,000	3,225	1,148,825	3,225	1,140,000
Cargill Inc., Lafayette, Tippecanoe	1,049,643	0	0	0	0	0	1,049,643	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
PSI Energy Gibson Generating Station, Princeton, Gibson	7,160,469	0	0	0	0	2,977,510	10,137,979	0	2
American Electric Power Tanners Creek Plant, Lawrenceburg, Dearborn	7,024,546	33,290	0	0	0	747,045	7,804,881	0	6,406
American Electric Power Rockport Plant, Rockport, Spencer	3,677,045	10,699	0	0	0	1,718,555	5,406,299	0	4,377
Clifty Creek Station, Madison, Jefferson	4,686,485	11,169	0	0	0	706,564	5,404,218	0	0
Alcoa Generating Corp./Sigeco - Warrick Power Plant, Newburgh, Warrick	3,812,880	658	0	0	0	846,045	4,659,583	186,310	0
PSI - Cayuga Generating Station, Cayuga, Vermillion	3,036,870	418	0	0	0	1,387,045	4,424,333	1	0
R.M. Schahfer Generating Station, Wheatfield, Jasper	1,377,516	6,751	0	0	0	2,549,105	3,933,372	0	0
PSI Energy Gallagher Generating Station, New Albany, Floyd	3,111,935	502	0	0	0	254,020	3,366,457	0	0
Merom Generating Station, Sullivan, Sullivan	1,481,036	551	0	0	0	1,494,000	2,975,587	0	0
Indianapolis Power & Light Co., Petersburg Generating Station, Petersburg, Pike	2,075,096	41,814	0	0	0	445,568	2,562,478	598,811	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## INDIANA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Steel Dynamics Inc., Butler, De Kalb	0	0	0	0	0	0	21,146,781	21,146,781	0
Nucor Steel, Crawfordsville, Montgomery	0	0	0	0	1,809,546	0	16,987,223	18,796,769	0
USS Gary Works, Gary, Lake	2,570,410	1,514,823	4,608,732	0	55,029	0	15,079,175	23,828,169	0
AK Steel Corp., Rockport, Spencer	0	11,200	0	0	5,479,000	0	4,705,000	10,195,200	15
Alcoa Inc. - Warrick Ops., Newburgh, Warrick	9,931,300	254,500	8,455,000	11,364	600,900	28,377	2,732,991	22,014,432	0
GE Plastics Mt. Vernon Inc., Mount Vernon, Posey	0	0	310,000	437,420	31,266,677	94,970	2,710,525	34,819,592	0
Quemetco Inc., Indianapolis, Marion	0	0	0	0	0	0	2,535,000	2,535,000	87,890
LTV Steel Co., East Chicago, Lake	0	0	0	0	0	0	2,457,400	2,457,400	1
Clinton Labs., Clinton, Vermillion	0	0	0	0	25,363,130	3,410	1,915,203	27,281,743	0
Bethlehem Steel Corp. Burns Harbor Div., Burns Harbor, Porter	2,459,000	0	0	0	2,400	0	1,740,290	4,201,690	480

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
PSI Energy Gibson Generating Station, Princeton, Gibson	0	0	0	0	9,360,000	0	10,129,700	19,489,700	0
American Electric Power Tanners Creek Plant, Lawrenceburg, Dearborn	0	116,800	0	0	220,000	0	7,812,000	8,148,800	0
Heritage Environmental Services L.L.C., Indianapolis, Marion	0	0	0	0	1,689,000	950	6,231,200	7,921,150	0
American Electric Power Rockport Plant, Rockport, Spencer	0	43,900	0	0	380,000	0	5,420,000	5,843,900	0
Clifty Creek Station, Madison, Jefferson	0	0	0	0	1,600,000	0	5,398,000	6,998,000	0
Alcoa Generating Corp./Sigeco - Warrick Power Plant, Newburgh, Warrick	0	0	0	0	0	0	4,847,000	4,847,000	0
PSI - Cayuga Generating Station, Cayuga, Vermillion	0	0	0	0	1,125,500	0	4,421,000	5,546,500	0
R.M. Schahfer Generating Station, Wheatfield, Jasper	0	0	0	0	7,691,132	0	3,933,374	11,624,506	0
PSI Energy Gallagher Generating Station, New Albany, Floyd	0	0	0	0	780,800	0	3,366,000	4,146,800	0
Indianapolis Power & Light Co., Petersburg Generating Station, Petersburg, Pike	0	1	0	0	8,900,259	0	3,161,289	12,061,549	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

# IOWA

## Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	29,587,477	13,762,559	43,350,036
Air Emissions	22,476,828	9,145,194	31,622,022
Surface Water Discharges	3,966,598	6,557	3,973,155
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	397,177	0	397,177
Other On-site Land Releases	2,746,874	4,610,808	7,357,682
Off-site Releases (Transfers Off-site to Disposal)*	5,078,063	364,330	5,442,393
<b>Total On- and Off-site Releases</b>	<b>34,665,540</b>	<b>14,126,889</b>	<b>48,792,429</b>
Recycled On-site	162,226,099	48,203	162,274,302
Recycled Off-site	36,809,582	327,886	37,137,468
Energy Recovery On-site	1,670,852	0	1,670,852
Energy Recovery Off-site	4,215,416	86,378	4,301,794
Treated On-site	57,597,992	409,114	58,007,106
Treated Off-site**	12,270,344	5,210	12,275,554
Quantity Released On- and Off-site***	38,978,093	14,032,835	53,010,928
<b>Total Production-related Waste Managed</b>	<b>313,768,378</b>	<b>14,909,626</b>	<b>328,678,004</b>
<b>Total Non-production-related Waste Managed</b>	<b>280,436</b>	<b>100</b>	<b>280,536</b>

## Transfers Off-site for Further Waste Management/Disposal

Recycling	36,495,537	327,886	36,823,423
Energy Recovery	3,802,491	83,661	3,886,152
Treatment	4,155,586	4,269	4,159,855
Publicly Owned Treatment Works (POTWs)	8,324,119	0	8,324,119
Metals and Metal Compounds*	206,031	0	206,031
Non-metal TRI Chemicals**	8,118,088	0	8,118,088
Other Off-site Transfers***	5	0	5
Off-site Transfers to Disposal (not including metals to POTWs)	11,189,726	364,340	11,554,066
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>63,967,464</b>	<b>780,156</b>	<b>64,747,620</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

## For More Information . . .

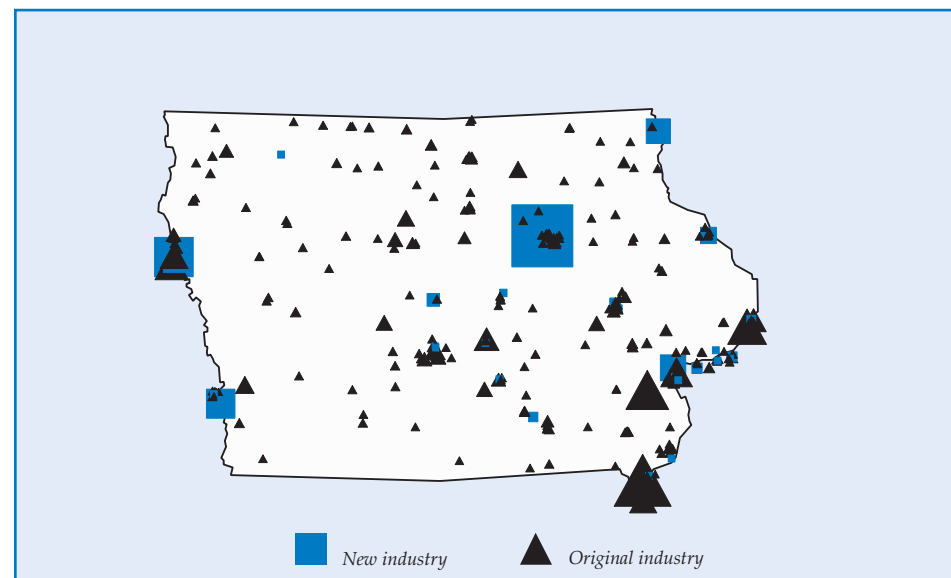
### State Contact:

Stuart Schmitz  
(515) 242-5241  
Fax: (515) 281-8895  
E-mail: stuart.schmitz@dnr.state.ia.us

### EPA Regional Contact:

Stephen Wurtz  
(913) 551-7315  
Fax: (913) 551-7065  
E-mail: wurtz.stephen@epa.gov

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Iowa. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

## State/TRI Data

Population	2,869,413
Square Miles	55,875
Total Facilities	416
Total Forms	1,354
Form As	205

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	25	32	30
Pounds	34,665,540	14,126,889	48,792,429
<b>National Rank for Total On-site Releases**</b>			
Rank	24	30	29
Pounds	29,587,477	13,762,559	43,350,036
<b>National Rank for Total Releases within State***</b>			
Rank	27	32	31
Pounds	31,189,589	14,175,882	45,365,471
<b>National Rank for Production-related Waste Managed</b>			
Rank	24	38	30
Pounds	313,768,378	14,909,626	328,678,004

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

# IOWA

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Zinc compounds	97,787	5,603	0	1,468,303	6,242,146	7,813,839	14,908	223,851	6,018,295
7664-41-7	Ammonia	4,959,632	279,856	0	1,750	108,597	5,349,835	0	107,397	1,200
110-54-3	n-Hexane	4,495,221	337	0	0	0	4,495,558	0	0	0
--	Nitrate compounds	24,270	3,579,442	0	36,750	158,824	3,799,286	229	153,424	5,400
1330-20-7	Xylene (mixed isomers)	3,062,240	250	0	336	470	3,063,296	12	200	270
108-88-3	Toluene	1,829,016	2,921	0	0	85	1,832,022	5	77	8
7439-96-5	Manganese	36,287	271	0	1,309,082	377,357	1,722,997	3,386	73,554	303,803
--	Manganese compounds	8,779	1,804	0	0	1,430,543	1,441,126	382	290,450	1,140,093
74-85-1	Ethylene	1,221,600	0	0	0	0	1,221,600	0	0	0
100-42-5	Styrene	1,006,843	757	0	109,508	15,910	1,133,018	0	250	15,660

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Barium compounds	118,710	0	0	3,241,529	320,604	3,680,843	30,430	320,609	0
7647-01-0	Hydrochloric acid	3,670,927	0	0	0	0	3,670,927	0	0	0
7664-93-9	Sulfuric acid	3,610,295	0	0	0	0	3,610,295	0	0	0
7664-39-3	Hydrogen fluoride	1,075,900	0	0	0	0	1,075,900	0	0	0
--	Manganese compounds	16,745	0	0	574,747	27,664	619,156	0	27,414	255
7697-37-2	Nitric acid	577,740	0	0	0	0	577,740	0	0	0
--	Zinc compounds	5,472	1,750	0	135,805	0	143,027	21,299	0	0
--	Copper compounds	3,523	1,000	0	134,600	5	139,128	0	0	5
--	Nickel compounds	6,011	1,000	0	110,300	5	117,316	0	0	5
--	Lead compounds	6,920	250	0	110,100	25	117,295	0	15	10

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

# IOWA

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Climax Molybdenum Co., Fort Madison, Lee	2,722,615	7,977	0	0	0	650	2,731,242	0	0
IBP Inc., Columbus Junction, Louisa	30,210	1,902,050	0	0	0	250	1,932,510	2,400	250
Equistar Chemicals L.P. Clinton Plant, Clinton, Clinton	1,706,621	0	0	0	0	0	1,706,621	0	0
Nulex, Inc., Sergeant Bluff, Woodbury	6,359	0	0	0	0	1,400,000	1,406,359	0	0
Hon Co. Oak Steel Plant, Muscatine, Muscatine	1,306,017	0	0	0	0	0	1,306,017	0	0
Terra Nitrogen, Sergeant Bluff, Woodbury	975,020	119,205	0	0	0	1,760	1,095,985	0	115,000
Griffin Wheel Co. Keokuk Plant, Keokuk, Lee	35,440	0	0	0	0	1,012,600	1,048,040	3,378	66,454
ADM Corn Processing, Clinton, Clinton	918,592	24,226	0	0	0	0	942,818	270,562	0
Maytag Newton Laundry Prods. Pl2, Newton, Jasper	460,608	462,300	0	0	0	0	922,908	50,272	0
ADM Soybean Processing, Des Moines, Polk	652,664	0	0	0	0	0	652,664	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Cedar Falls Utilities Streeter Station, Cedar Falls, Black Hawk	3,848,374	0	0	0	0	0	3,848,374	0	0
George Neal North, Sergeant Bluff, Woodbury	597,775	1,250	0	0	0	1,662,700	2,261,725	15	520
Council Bluffs Energy Center, Council Bluffs, Pottawattamie	529,480	750	0	0	0	1,014,700	1,544,930	15	15
Louisa Generating Station - Midamerican Energy Co., Muscatine, Muscatine	444,040	1,505	0	0	0	878,000	1,323,545	15	0
Lansing Power Station, Lansing, Allamakee	1,173,463	47	0	0	0	64,600	1,238,110	0	0
George Neal South, Salix, Woodbury	449,195	750	0	0	0	779,000	1,228,945	0	0
Dubuque Power Plant, Dubuque, Dubuque	650,520	0	0	0	0	0	650,520	8,936	0
City of Ames Power Plant, Ames, Story	369,985	0	0	0	0	38,000	407,985	0	0
Sixth Street Generating Station, Cedar Rapids, Linn	288,418	0	0	0	0	0	288,418	30,000	0
Fair Station, Montpelier, Muscatine	244,760	0	0	0	0	0	244,760	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

# IOWA

## Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Ipsco Steel Inc., Muscatine, Muscatine	0	0	0	0	0	0	6,759,703	6,759,703	0
Climax Molybdenum Co., Fort Madison, Lee	150,000	0	0	0	500,000	0	2,730,592	3,380,592	0
IBP Inc., Columbus Junction, Louisa	0	0	0	0	117,000	0	1,935,180	2,052,180	107
Equistar Chemicals L.P. Clinton Plant, Clinton, Clinton	0	0	0	986,130	5,747,900	49,002	1,684,952	8,467,984	102,129
Nulex, Inc., Sergeant Bluff, Woodbury	3,014,860	0	0	0	18,023,810	0	1,405,859	22,444,529	7,109
North Star Recycling, Wiltonjunction, Muscatine	0	0	0	0	0	0	1,230,251	1,230,251	0
Adm Corn Processing, Clinton, Clinton	0	0	0	0	172,600	0	1,211,009	1,383,609	0
Terra Nitrogen, Sergeant Bluff, Woodbury	0	0	0	0	0	0	1,106,040	1,106,040	550
Maytag Newton Laundry Prods. Pl2, Newton, Jasper	0	151,400	0	146	533,400	0	983,150	1,668,096	0
ADM Corn Processing, Cedar Rapids, Linn	0	0	0	0	1,143,300	0	856,395	1,999,695	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

## Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Cedar Falls Utilities Streeter Station, Cedar Falls, Black Hawk	0	0	0	0	0	0	3,848,374	3,848,374	0
George Neal North, Sergeant Bluff, Woodbury	0	0	0	0	0	0	2,267,000	2,267,000	0
Council Bluffs Energy Center, Council Bluffs, Pottawattamie	0	0	0	0	0	0	1,542,200	1,542,200	0
Louisa Generating Station - Midamerican Energy Co., Muscatine, Muscatine	0	0	0	0	0	0	1,318,000	1,318,000	0
Lansing Power Station, Lansing, Allamakee	0	0	0	0	111,868	0	1,238,111	1,349,979	0
George Neal South, Salix, Woodbury	0	0	0	0	0	0	1,226,000	1,226,000	0
Dubuque Power Plant, Dubuque, Dubuque	0	0	0	0	72,252	0	659,459	731,711	0
City of Ames Power Plant, Ames, Story	0	0	0	0	0	0	369,990	369,990	3
Fair Station, Montpelier, Muscatine	0	0	0	0	0	0	342,300	342,300	2
Sixth Street Generating Station, Cedar Rapids, Linn	0	0	0	0	32,000	0	318,413	350,413	2

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.





# 1999 Toxics Release Inventory

## KANSAS

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	19,435,643	9,020,254	28,455,897
Air Emissions	15,331,200	2,144,876	17,476,076
Surface Water Discharges	1,063,516	6,391	1,069,907
Underground Injection Class I Wells	1,168,778	0	1,168,778
Underground Injection Class II-V Wells	250	0	250
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	1,871,899	6,868,987	8,740,886
Off-site Releases (Transfers Off-site to Disposal)*	13,634,175	483,986	14,118,161
<b>Total On- and Off-site Releases</b>	<b>33,069,818</b>	<b>9,504,240</b>	<b>42,574,058</b>
Recycled On-site	103,192,153	249,519	103,441,672
Recycled Off-site	74,570,529	487,132	75,057,661
Energy Recovery On-site	92,444,850	0	92,444,850
Energy Recovery Off-site	3,086,298	64,362	3,150,660
Treated On-site	23,380,834	3,926,250	27,307,084
Treated Off-site**	2,045,979	22,854	2,068,833
Quantity Released On- and Off-site***	35,629,572	8,976,821	44,606,393
<b>Total Production-related Waste Managed</b>	<b>334,350,215</b>	<b>13,726,938</b>	<b>348,077,153</b>
<b>Total Non-production-related Waste Managed</b>	<b>292,421</b>	<b>20,908</b>	<b>313,329</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	75,480,832	487,147	75,967,979
Energy Recovery	3,328,142	73,046	3,401,188
Treatment	330,103	6,021	336,124
Publicly Owned Treatment Works (POTWs)	1,887,037	8,554	1,895,591
Metals and Metal Compounds*	17,836	0	17,836
Non-metal TRI Chemicals**	1,869,201	8,554	1,877,755
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	16,359,115	486,254	16,845,369
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>97,385,229</b>	<b>1,061,022</b>	<b>98,446,251</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

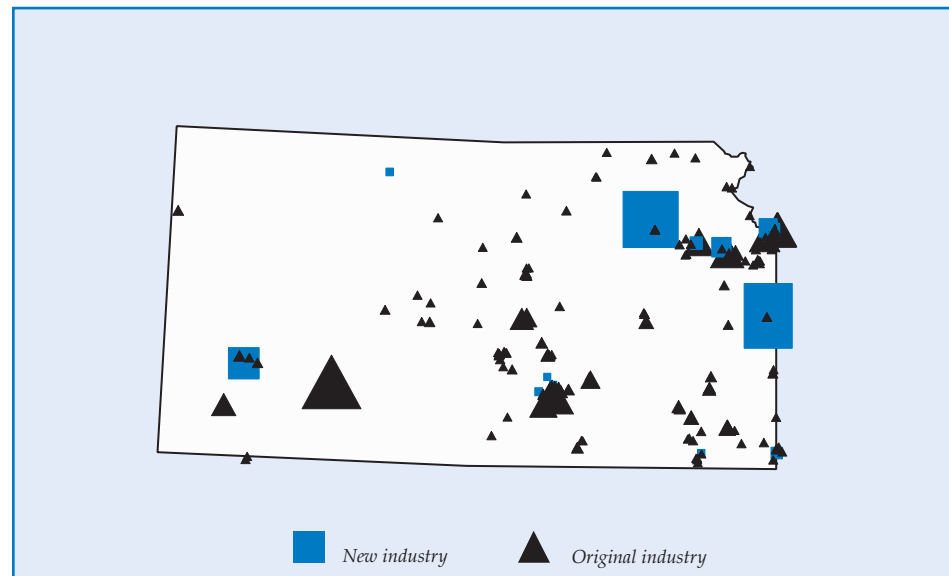
Scott Bangert  
(785) 296-1689  
Fax: (785) 296-1545  
E-mail: sbangert@kdhe.state.ks.us

#### EPA Regional Contact:

Stephen Wurtz  
(913) 551-7315  
Fax: (913) 551-7065  
E-mail: wurtz.stephen@epa.gov

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531

Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Kansas. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	2,654,052
Square Miles	81,823
Total Facilities	271
Total Forms	1,003
Form As	118

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	26	38	32
Pounds	33,069,818	9,504,240	42,574,058
<b>National Rank for Total On-site Releases**</b>			
Rank	32	38	34
Pounds	19,435,643	9,020,254	28,455,897
<b>National Rank for Total Releases within State***</b>			
Rank	31	38	35
Pounds	21,464,371	9,675,516	31,139,887
<b>National Rank for Production-related Waste Managed</b>			
Rank	21	40	27
Pounds	334,350,215	13,726,938	348,077,153

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## KANSAS

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Nitrate compounds	1,010	995,671	1,800	818,099	6,818,349	8,634,929	0	1,006	6,817,343
7697-37-2	Nitric acid	4,408	0	0	3,000	6,153,173	6,160,581	0	173	6,153,000
7664-41-7	Ammonia	3,962,626	23,587	16,250	86,979	1,031,990	5,121,432	0	49,050	982,940
1330-20-7	Xylene (mixed isomers)	1,634,230	326	0	5	31,362	1,665,923	1,500	27,980	3,382
67-56-1	Methanol	757,801	8	761,575	185	7	1,519,576	15,050	2	5
108-88-3	Toluene	1,273,578	371	0	41	2,692	1,276,682	10	2,048	644
75-15-0	Carbon disulfide	1,120,881	0	0	0	0	1,120,881	0	0	0
110-54-3	n-Hexane	1,105,518	55	0	0	256	1,105,829	0	251	5
--	Manganese compounds	10,335	250	250	250	1,035,394	1,046,479	152	1,029,194	6,200
7439-96-5	Manganese	4,989	250	0	898,225	14,609	918,073	750	2,815	11,794

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Barium compounds	76,429	2,350	0	5,773,535	0	5,852,314	66	0	0
7647-01-0	Hydrochloric acid	697,138	0	0	0	0	697,138	0	0	0
7440-39-3	Barium	18,846	5	0	205,168	435,417	659,436	112,298	0	435,417
7664-39-3	Hydrogen fluoride	624,424	0	0	0	0	624,424	0	0	0
7664-93-9	Sulfuric acid	617,763	0	0	0	0	617,763	0	0	0
--	Manganese compounds	5,351	1,005	0	328,936	10	335,302	0	10	0
--	Copper compounds	3,547	250	0	168,455	5	172,257	2,676	5	0
--	Zinc compounds	7,841	1,750	0	116,912	10	126,513	275	10	0
7782-41-4	Fluorine	427	0	0	105,417	0	105,844	0	0	0
--	Chromium compounds	2,732	250	0	90,797	255	94,034	1,741	255	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## KANSAS

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	<u>Underground Injection</u>				<u>On-site Releases to Land</u>			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Farmland Inds. Inc. Dodge City Nitrogen Plant, Dodge City, Ford	2,101,020	0	2,300	0	0	2,630	2,105,950	0	0
Excel Corp., Dodge City, Ford	30,570	509,211	0	0	0	817,997	1,357,778	689	229
GMC MLCG-Fairfax Assembly, Kansas City, Wyandotte	1,259,739	0	0	0	0	0	1,259,739	510	18,200
Farmland Inds. Inc. - Lawrence Nitrogen Plant, Lawrence, Douglas	635,802	395,600	0	0	0	3,000	1,034,402	0	0
Boeing Co. - Wichita Div., Wichita, Sedgwick	1,004,415	18,520	0	0	0	0	1,022,935	10,505	209,730
Griffin Wheel Co. Kansas City Plant, Kansas City, Wyandotte	18,970	0	0	0	0	898,037	917,007	1,664	41,899
UCB Films Inc., Tecumseh, Shawnee	880,550	10,600	0	0	0	500	891,650	0	0
Air Prods. Mfg. Corp., Haysville, Sedgwick	84,427	0	698,650	0	0	0	783,077	0	0
Columbian Chemicals Co., Ulysses, Grant	650,000	0	0	0	0	0	650,000	0	0
Owens-Corning, Kansas City, Wyandotte	645,455	0	0	0	0	0	645,455	30,250	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
La Cygne, La Cygne, Linn	302,605	255	0	0	0	2,703,000	3,005,860	10	0
Jeffrey Energy Center, Saint Marys, Pottawatomie	372,165	2,000	0	0	0	2,177,500	2,551,665	515	0
Holcomb Unit 1, Holcomb, Finney	340,483	0	0	0	0	915,409	1,255,892	0	0
Lawrence Energy Center, Lawrence, Douglas	21,560	3,350	0	0	0	622,000	646,910	10	0
Nearman Creek Power Station, Kansas City, Wyandotte	418,506	0	0	0	0	171,608	590,114	0	47,741
Quindaro Power Station, Kansas City, Wyandotte	330,834	0	0	0	0	0	330,834	0	428,570
Tecumseh Energy Center, Tecumseh, Shawnee	58,550	250	0	0	0	220,000	278,800	0	0
Riverton Generating Station, Riverton, Cherokee	173,455	10	0	0	0	56,707	230,172	0	0
Murray Gill Energy Center, Wichita, Sedgwick	43,000	0	0	0	0	0	43,000	0	0
Farmland Ind. Inc., Phillipsburg, Phillips	25,408	0	0	0	0	0	25,408	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## KANSAS

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Jayhawk Fine Chemicals Corp., Galena, Cherokee	0	35,980	0	727,832	7,613,875	0	14,977,722	23,355,409	5
Farmland Inds. Inc. Dodge City Nitrogen Plant, Dodge City, Ford	0	23,700	15,000	0	10,100	0	2,103,000	2,151,800	1
Excel Corp., Dodge City, Ford	0	0	0	0	5,564,602	0	1,358,696	6,923,298	0
GMC MLCG-Fairfax Assembly, Kansas City, Wyandotte	0	0	0	694,050	141,460	109,760	1,275,695	2,220,965	0
Boeing Co. - Wichita Div., Wichita, Sedgwick	0	7,159,002	0	243,900	285,477	80,280	1,218,290	8,986,949	0
Farmland Inds. Inc. - Lawrence Nitrogen Plant, Lawrence, Douglas	37,707,100	0	1,831,900	0	2,447,600	0	1,034,400	43,021,000	28,000
Griffin Wheel Co. Kansas City Plant, Kansas City, Wyandotte	0	0	0	0	0	0	960,400	960,400	0
UCB Films Inc., Tecumseh, Shawnee	9,530,000	0	0	17,000	203,600	0	881,700	10,632,300	0
Air Prods. Mfg. Corp., Haysville, Sedgwick	0	0	555,950	71	1,037,869	2,100	790,540	2,386,530	0
Owens-Corning, Kansas City, Wyandotte	300	22,000	0	0	0	94,200	675,040	791,540	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
La Cygne, La Cygne, Linn	0	0	0	0	1,908,000	207	2,953,000	4,861,207	0
Jeffrey Energy Center, Saint Marys, Pottawatomie	0	0	0	0	810,000	0	2,579,000	3,389,000	0
Holcomb Unit 1, Holcomb, Finney	0	0	0	0	0	0	1,259,421	1,259,421	0
Lawrence Energy Center, Lawrence, Douglas	0	0	0	0	42,000	0	642,400	684,400	0
Nearman Creek Power Station, Kansas City, Wyandotte	0	307,088	0	0	0	0	590,116	897,204	0
Quindaro Power Station, Kansas City, Wyandotte	0	7,389	0	0	0	0	339,343	346,732	0
Tecumseh Energy Center, Tecumseh, Shawnee	0	0	0	0	42,000	0	277,000	319,000	0
Riverton Generating Station, Riverton, Cherokee	0	0	0	0	0	0	230,191	230,191	0
Murray Gill Energy Center, Wichita, Sedgwick	0	0	0	0	0	0	43,000	43,000	0
Safety-Kleen (Aragonite) Inc., Coffeyville, Montgomery	208,100	172,640	0	0	1,050,437	4,135	20,124	1,455,436	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## KENTUCKY

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	34,464,197	59,403,329	93,867,526
Air Emissions	30,515,507	44,800,237	75,315,744
Surface Water Discharges	1,736,386	1,278,240	3,014,626
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	21,200	0	21,200
Other On-site Land Releases	2,191,104	13,324,852	15,515,956
Off-site Releases (Transfers Off-site to Disposal)*	11,349,728	988,068	12,337,796
<b>Total On- and Off-site Releases</b>	<b>45,813,925</b>	<b>60,391,397</b>	<b>106,205,322</b>
Recycled On-site	281,292,045	1,928,711	283,220,756
Recycled Off-site	49,802,056	289,561	50,091,617
Energy Recovery On-site	64,916,945	0	64,916,945
Energy Recovery Off-site	9,605,108	12,828,897	22,434,005
Treated On-site	125,045,911	46,495,639	171,541,550
Treated Off-site**	15,015,414	1,439,841	16,455,255
Quantity Released On- and Off-site***	41,770,156	60,366,040	102,136,196
<b>Total Production-related Waste Managed</b>	<b>587,447,635</b>	<b>123,348,689</b>	<b>710,796,324</b>
<b>Total Non-production-related Waste Managed</b>	<b>172,060</b>	<b>28</b>	<b>172,088</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	44,346,924	406,607	44,753,531
Energy Recovery	9,957,549	12,879,607	22,837,156
Treatment	7,017,385	1,605,517	8,622,902
Publicly Owned Treatment Works (POTWs)	3,270,606	457	3,271,063
Metals and Metal Compounds*	63,491	1	63,492
Non-metal TRI Chemicals**	3,207,115	456	3,207,571
Other Off-site Transfers***	3,634	0	3,634
Off-site Transfers to Disposal (not including metals to POTWs)	13,714,624	1,020,480	14,735,104
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>78,310,722</b>	<b>15,912,668</b>	<b>94,223,390</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

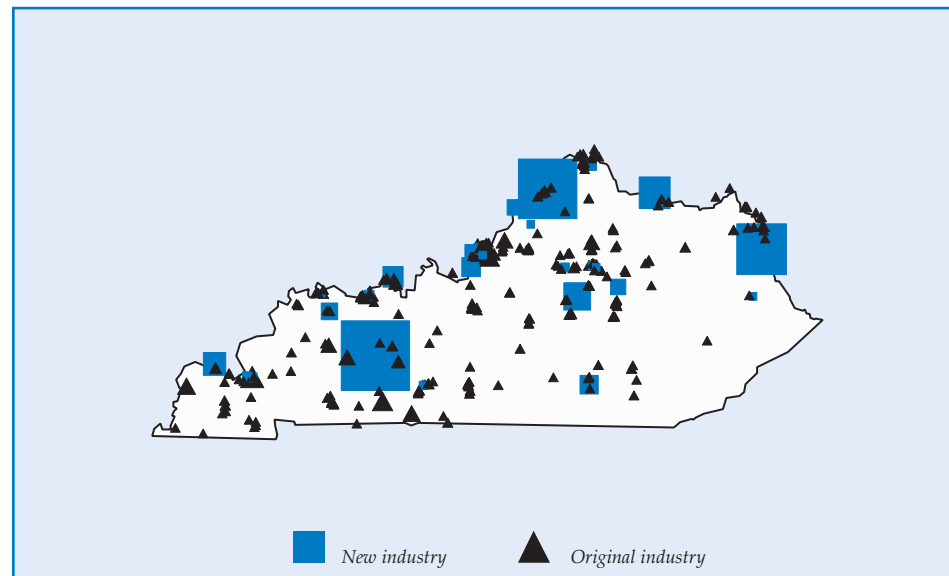
Alex Barber  
(502) 564-2150  
Fax: (502) 564-4245  
E-mail: alex.barber@mail.state.ky.us

#### EPA Regional Contact:

Ezequiel Velez  
(404) 562-9191  
Fax: (404) 562-9163

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531

Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Kentucky. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	3,960,825
Square Miles	39,732
Total Facilities	456
Total Forms	2,034
Form As	259

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	20	18	20
Pounds	45,813,925	60,391,397	106,205,322
<b>National Rank for Total On-site Releases**</b>			
Rank	21	18	21
Pounds	34,464,197	59,403,329	93,867,526
<b>National Rank for Total Releases within State***</b>			
Rank	23	18	21
Pounds	39,490,336	60,555,658	100,045,994
<b>National Rank for Production-related Waste Managed</b>			
Rank	12	13	14
Pounds	587,447,635	123,348,689	710,796,324

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## KENTUCKY

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Lead compounds	11,729	342	0	0	5,710,232	5,722,303	57,731	22,682	5,687,575
67-56-1	Methanol	4,075,246	19,397	0	3,785	9	4,098,437	0	4	5
108-88-3	Toluene	3,365,055	401	0	859	27,874	3,394,189	9,617	27,779	95
--	Zinc compounds	96,730	16,819	0	123,457	2,762,757	2,999,763	151,420	327,966	2,435,006
1330-20-7	Xylene (mixed isomers)	2,639,699	486	0	813	160,407	2,801,405	1,094	160,146	261
--	Nitrate compounds	1,099	1,475,564	0	1,069,179	9,552	2,555,394	255	8,802	750
75-45-6	Chlorodifluoromethane (HCFC-22)	2,384,043	0	0	0	1,848	2,385,891	0	1,848	0
110-54-3	n-Hexane	2,093,385	224	0	5	511	2,094,125	0	18	493
75-09-2	Dichloromethane	1,876,440	5	0	0	0	1,876,445	2,715	0	0
7664-41-7	Ammonia	1,646,359	38,389	0	29,584	38,192	1,752,524	77	17,413	20,779

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

One facility in Richmond, Kentucky incorrectly reported 5,411,508 pounds of lead compounds as a transfer off-site to disposal to Missouri. This amount should have been reported as being sent off-site to recycling. Due to this error, lead compounds was incorrectly ranked in the Top Ten Chemicals for total releases in Kentucky.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	25,886,198	0	0	0	0	25,886,198	0	0	0
7664-93-9	Sulfuric acid	17,056,027	0	0	0	0	17,056,027	0	0	0
--	Barium compounds	28,782	149,005	0	5,201,337	362,790	5,741,914	131,509	362,789	1
--	Zinc compounds	13,570	43,006	0	2,298,898	226,071	2,581,545	36,445	130,319	96,036
--	Manganese compounds	10,467	102,649	0	1,432,380	138,305	1,683,801	57,280	138,305	0
7664-39-3	Hydrogen fluoride	1,634,458	0	0	0	5	1,634,463	0	5	0
--	Nickel compounds	5,851	25,177	0	934,206	65,000	1,030,234	2,770	65,000	0
--	Copper compounds	26,478	16,656	0	756,298	62,780	862,212	25,790	36,220	26,565
--	Nitrate compounds	0	860,000	0	0	0	860,000	0	0	0
--	Chromium compounds	6,131	10,536	0	722,922	120,287	859,876	3,544	92,833	27,454

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## KENTUCKY

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection					On-site Releases to Land		Transferred Within State	Transferred Out of State
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Air Prods. & Chemicals Inc., Calvert City, Marshall	2,048,237	116,501	0	0	0	20,578	2,185,316	0	0
Du Pont Louisville Plant, Louisville, Jefferson	1,910,046	580	0	0	0	0	1,910,626	0	1,675
Carpenter Co., Russellville, Logan	1,711,826	0	0	0	0	0	1,711,826	0	0
Ford Motor Co. Louisville Assembly Plant, Louisville, Jefferson	1,611,996	0	0	0	0	0	1,611,996	368,164	12,870
Westvaco Kentucky L.P., Wickliffe, Ballard	1,154,520	107,573	0	0	0	64,151	1,326,244	0	0
Quebecor Printing Franklin, Franklin, Simpson	1,223,000	0	0	0	0	0	1,223,000	280	1,721
Ford Motor Co. Kentucky Truck Plant, Louisville, Jefferson	1,179,552	0	0	0	0	0	1,179,552	30,151	2,079
Daramic Inc., Owensboro, Daviess	1,153,594	0	0	0	0	0	1,153,594	0	0
American Synthetic Rubber Co. L.L.C., Louisville, Jefferson	1,111,170	0	0	0	0	750	1,111,920	13,000	0
Ensign-Bickford Co., Graham, Muhlenberg	37,517	0	0	0	0	1,073,813	1,111,330	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection					On-site Releases to Land		Transferred Within State	Transferred Out of State
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
U.S. TVA Paradise Fossil Plant, Drakesboro, Muhlenberg	9,753,345	937,850	0	0	0	1,482,850	12,174,045	505	0
Kentucky Utilities Co. - Ghent Station, Ghent, Carroll	7,604,562	111,120	0	0	0	2,488,500	10,204,182	0	0
Big Sandy Plant, Louisa, Lawrence	7,244,500	6,047	0	0	0	1,198,870	8,449,417	1,658	594
Spurlock Power Station, Maysville, Mason	3,904,667	1,992	0	0	0	776,000	4,682,659	0	0
Kentucky Utilities Co. - E. W. Brown Station, Burgin, Mercer	3,318,719	13,030	0	0	0	528,700	3,860,449	0	0
U.S. TVA Shawnee Fossil Plant, West Paducah, Mc Cracken	734,440	7,650	0	0	0	2,215,205	2,957,295	280	0
Coleman, Hawesville, Hancock	2,210,761	0	0	0	0	304,922	2,515,683	0	0
Louisville Gas & Electric Co. Mill Creek Station, Louisville, Jefferson	2,069,862	69,011	0	0	0	62,590	2,201,463	0	0
Cooper Power Station, Burnside, Pulaski	1,812,780	812	0	0	0	312,100	2,125,692	0	0
Reid/Green/HMP&L Station II, Robards, Henderson	801,056	0	0	0	0	965,165	1,766,221	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.





# 1999 Toxics Release Inventory

## KENTUCKY

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated On-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Newport Steel Corp., Wilder, Campbell	0	2,138,600	0	0	0	0	2,818,000	4,956,600	0
Air Prods. & Chemicals Inc., Calvert City, Marshall	0	0	0	0	3,183,000	255,505	2,166,800	5,605,305	10,687
Ford Motor Co. Louisville Assembly Plant, Louisville, Jefferson	0	1,036,471	0	31,922	546,363	3,400	2,015,070	3,633,226	0
Du Pont Louisville Plant, Louisville, Jefferson	0	48,263	0	0	0	139,013	1,912,301	2,099,577	0
Carpenter Co., Russellville, Logan	0	0	0	0	0	12,932	1,711,826	1,724,758	0
Westvaco Kentucky L.P., Wickliffe, Ballard	0	0	0	0	7,459,253	0	1,326,993	8,786,246	0
Quebecor Printing Franklin, Franklin, Simpson	26,000,000	0	0	50,730	535	6,273	1,310,290	27,367,828	0
Ford Motor Co. Kentucky Truck Plant, Louisville, Jefferson	0	556,599	0	12,080	917,800	692,790	1,229,920	3,409,189	0
Toyota Motor Mfg. Kentucky Inc., Georgetown, Scott	0	1,688,150	579,440	241,171	89,366	101,341	1,164,979	3,864,447	0
American Synthetic Rubber Co. L.L.C., Louisville, Jefferson	410,000	0	0	11,000	11,377,000	19,000	1,124,675	12,941,675	7,400

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated On-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
U.S. TVA Paradise Fossil Plant, Drakesboro, Muhlenberg	0	8,120	0	0	12,754,700	0	12,179,220	24,942,040	0
Kentucky Utilities Co. - Ghent Station, Ghent, Carroll	0	0	0	0	3,569,600	0	10,200,100	13,769,700	0
Big Sandy Plant, Louisa, Lawrence	0	15,080	0	0	1,000,000	0	8,455,300	9,470,380	0
Spurlock Power Station, Maysville, Mason	0	0	0	0	0	0	4,689,840	4,689,840	13
Kentucky Utilities Co. - E. W. Brown Station, Burgin, Mercer	0	0	0	0	0	0	3,859,600	3,859,600	0
U.S. TVA Shawnee Fossil Plant, West Paducah, Mc Cracken	0	26,000	0	0	1,122,000	0	2,936,020	4,084,020	0
Coleman, Hawesville, Hancock	0	0	0	0	0	0	2,515,685	2,515,685	0
Louisville Gas & Electric Co. Mill Creek Station, Louisville, Jefferson	0	0	0	0	7,039,000	0	2,201,660	9,240,660	0
Cooper Power Station, Burnside, Pulaski	0	0	0	0	0	0	2,122,000	2,122,000	9
Reid/Green/HMP&L Station II, Robards, Henderson	0	0	0	0	0	0	1,766,224	1,766,224	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## LOUISIANA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	131,657,172	15,211,366	146,868,538
Air Emissions	66,858,651	1,453,293	68,311,944
Surface Water Discharges	15,037,778	78,350	15,116,128
Underground Injection Class I Wells	44,030,834	2,807,375	46,838,209
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	4,021	7,311,500	7,315,521
Other On-site Land Releases	5,725,888	3,560,848	9,286,736
Off-site Releases (Transfers Off-site to Disposal)*	3,167,884	116,183	3,284,067
<b>Total On- and Off-site Releases</b>	<b>134,825,056</b>	<b>15,327,549</b>	<b>150,152,605</b>
Recycled On-site	880,849,285	595,849	881,445,134
Recycled Off-site	49,296,043	242,782	49,538,825
Energy Recovery On-site	307,506,075	72,746	307,578,821
Energy Recovery Off-site	12,747,812	159,845	12,907,657
Treated On-site	919,799,983	1,915,283	921,715,266
Treated Off-site**	15,787,457	1,204,589	16,992,046
Quantity Released On- and Off-site***	134,204,534	15,351,420	149,555,954
<b>Total Production-related Waste Managed</b>	<b>2,320,191,189</b>	<b>19,542,514</b>	<b>2,339,733,703</b>
<b>Total Non-production-related Waste Managed</b>	<b>763,546</b>	<b>8</b>	<b>763,554</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	48,886,733	259,722	49,146,455
Energy Recovery	12,759,982	156,359	12,916,341
Treatment	14,927,131	1,259,687	16,186,818
Publicly Owned Treatment Works (POTWs)	566,671	100	566,771
Metals and Metal Compounds*	7,980	1	7,981
Non-metal TRI Chemicals**	558,691	99	558,790
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	3,449,730	126,698	3,576,428
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>80,590,247</b>	<b>1,802,566</b>	<b>82,392,813</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

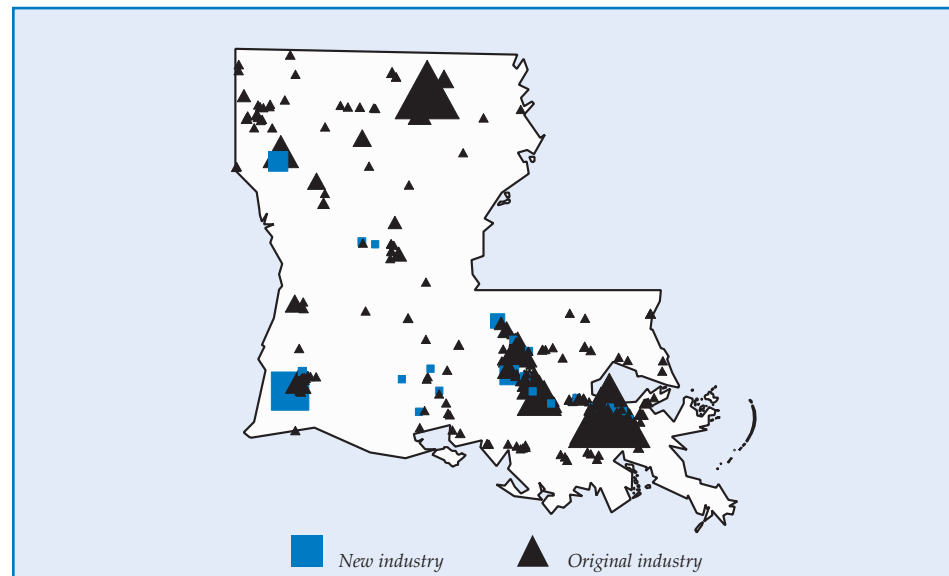
Linda Brown  
(225) 765-2993  
Fax: (225) 765-0617  
E-mail: lindab@deq.state.la.us

#### EPA Regional Contact:

Warren Layne  
(214) 665-8013  
Fax: (214) 665-6762  
E-mail: layne.warren@epa.gov  
Morton E. Wakeland, Jr.  
(214) 665-8116

#### To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Louisiana. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	4,372,035
Square Miles	43,566
Total Facilities	343
Total Forms	2,475
Form As	287

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	4	31	12
Pounds	134,825,056	15,327,549	150,152,605
<b>National Rank for Total On-site Releases**</b>			
Rank	2	28	10
Pounds	131,657,172	15,211,366	146,868,538
<b>National Rank for Total Releases within State***</b>			
Rank	4	31	13
Pounds	136,973,136	15,901,879	152,875,015
<b>National Rank for Production-related Waste Managed</b>			
Rank	2	36	2
Pounds	2,320,191,189	19,542,514	2,339,733,703

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## LOUISIANA

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-41-7	Ammonia	19,978,766	820,826	5,096,022	2,677	98,712	25,997,003	139,456	43,212	55,500
67-56-1	Methanol	15,116,869	240,958	3,702,574	293,593	21,682	19,375,676	105,326	21,558	124
--	Nitrate compounds	0	13,322,385	2,773,230	750	87,641	16,184,006	600,006	87,641	0
50-00-0	Formaldehyde	442,815	14,162	10,149,736	9,584	1,379	10,617,676	2,425	1,379	0
7697-37-2	Nitric acid	37,354	5	6,749,244	0	0	6,786,603	0	0	0
110-54-3	n-Hexane	4,698,588	3,400	34,468	1,871	30	4,738,357	1	30	0
75-05-8	Acetonitrile	44,985	799	4,607,900	0	35	4,653,719	0	35	0
74-85-1	Ethylene	3,700,269	0	0	0	0	3,700,269	0	0	0
7439-96-5	Manganese	10,132	548	0	3,132,391	24,736	3,167,807	3,033	26,021	9
64-18-6	Formic acid	15,455	2,738	2,768,194	0	2,150	2,788,537	0	2,150	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Zinc compounds	3,704	2,578	0	4,065,939	648	4,072,869	1,823	1	647
--	Barium compounds	45,643	28,522	0	2,589,872	2,279	2,666,316	18,424	0	2,279
--	Nitrate compounds	0	0	2,048,103	0	0	2,048,103	7,102	0	0
--	Nickel compounds	1,996	679	0	798,282	23,373	824,330	182	0	23,373
--	Manganese compounds	8,953	21,562	0	730,533	0	761,048	14	0	0
7647-01-0	Hydrochloric acid	723,759	0	0	0	0	723,759	0	0	0
--	Diisocyanates	1	0	0	470,000	0	470,001	0	0	0
--	Lead compounds	433	250	0	452,000	4,174	456,857	24,394	0	4,174
7664-39-3	Hydrogen fluoride	451,789	0	0	0	0	451,789	0	0	0
--	Copper compounds	3,521	11,917	0	378,921	5,730	400,089	3,017	0	5,730

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

# LOUISIANA

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Cytec Inds. Inc. Fortier Plant, Westwego, Jefferson	233,378	24,795	13,604,200	0	0	0	13,862,373	18,720	54
Angus Chemical Co., Sterlington, Ouachita	163,040	474,298	9,898,990	0	0	360	10,536,688	36	0
Monsanto - Luling, Luling, St Charles	123,521	234,840	9,860,600	0	0	0	10,218,961	0	46,000
CF Inds. Inc., Donaldsonville, Ascension	6,051,810	654,885	0	0	0	0	6,706,695	23,120	0
ExxonMobil Refining & Supply Baton Rouge Refy., Baton Rouge, East Baton Rouge	1,121,506	4,518,705	0	0	0	5,475	5,645,686	11,591	36,185
International Paper, Mansfield, De Soto	4,370,636	43,935	0	0	0	608,743	5,023,314	0	0
IMC-Agrico Co. Faustina Plant, Saint James, St James	4,960,024	46,255	0	0	0	1	5,006,280	0	0
Rubicon Inc., Geismar, Ascension	497,668	170	4,427,960	0	0	0	4,925,798	4,030	7
BASF Corp., Geismar, Ascension	674,402	3,163,402	0	0	0	0	3,837,804	58,813	4,790
Triad Nitrogen Inc., Donaldsonville, Ascension	3,402,256	57,248	0	0	0	0	3,459,504	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Chemical Waste Management - Lake Charles Facility, Sulphur, Calcasieu	127	0	0	0	7,311,500	0	7,311,627	0	102,528
Cleco Corp. Dolet Hills Power Station-(50% Ownership), Mansfield, De Soto	335,310	36,936	0	0	0	2,561,315	2,933,561	0	0
Safety-Kleen (Plaquemine) Inc., Plaquemine, Iberville	18	0	2,807,375	0	0	0	2,807,393	0	0
Big Cajun 2, New Roads, Pointe Coupee	706,350	3,750	0	0	0	993,870	1,703,970	0	0
Entergy - Roy S. Nelson Generating Plt., Westlake, Calcasieu	212,386	25,904	0	0	0	0	238,290	0	0
Cleco Corp. Rodemacher Power Station, Lena, Rapides	146,341	11,760	0	0	0	5,413	163,514	0	0
Evans Harvey Corp., Harvey, Jefferson	18,377	0	0	0	0	0	18,377	0	0
Ashland Distribution Co., Baton Rouge, East Baton Rouge	6,466	0	0	0	0	0	6,466	0	0
Motiva Kenner Terminal, Kenner, Jefferson	5,342	0	0	0	0	0	5,342	0	0
Gulf Coast Chemical Inc., Abbeville, Vermilion	4,744	0	0	0	0	0	4,744	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

# LOUISIANA

## Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Cytec Inds. Inc. Fortier Plant, Westwego, Jefferson	8,927,700	128	37,091,490	0	18,823,870	5,022	13,644,732	78,492,942	189,000
Angus Chemical Co., Sterlington, Ouachita	6,275,746	64,197	2,687,082	0	104,929	230,295	10,536,688	19,898,937	0
Monsanto - Luling, Luling, St Charles	0	13,000	0	0	35,591,700	30,741	10,211,199	45,846,640	0
CF Inds. Inc., Donaldsonville, Ascension	0	16,500	475,000	0	0	0	6,729,347	7,220,847	0
ExxonMobil Refining & Supply Baton Rouge Refy., Baton Rouge, East Baton Rouge	0	6,377	0	5,422	3,470,200	0	5,763,888	9,245,887	0
International Paper, Mansfield, De Soto	0	0	596,321	0	4,552,280	0	5,023,571	10,172,172	11
IMC-Agrico Co. Faustina Plant, Saint James, St James	0	0	3,777,054	0	4,320	0	5,006,281	8,787,655	0
Rubicon Inc., Geismar, Ascension	0	0	13,168,000	0	788,600	422,318	4,913,932	19,292,850	674
BASF Corp., Geismar, Ascension	0	152,300	16,591,077	580,390	8,326,907	273,725	3,911,212	29,835,611	0
Triad Nitrogen Inc., Donaldsonville, Ascension	0	0	84,930	0	0	0	3,486,456	3,571,386	2,866

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

## Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Chemical Waste Management - Lake Charles Facility, Sulphur, Calcasieu	0	232	0	2,800	2,600	45,282	7,432,500	7,483,414	0
Cleco Corp. Dolet Hills Power Station-(50% Ownership), Mansfield, De Soto	0	0	0	0	451,768	0	2,933,561	3,385,329	0
Safety-Kleen (Plaquemine) Inc., Plaquemine, Iberville	0	0	0	0	183	0	2,807,393	2,807,576	0
Big Cajun 2, New Roads, Pointe Coupee	0	0	0	0	1,445,000	0	1,702,400	3,147,400	0
Entergy - Roy S. Nelson Generating Plt., Westlake, Calcasieu	0	0	0	0	0	0	238,290	238,290	8
Cleco Corp. Rodemacher Power Station, Lena, Rapides	0	0	0	0	0	0	163,515	163,515	0
Evans Harvey Corp., Harvey, Jefferson	0	0	137,813	2,437	0	0	22,111	162,361	0
Safety-Kleen (Baton Rouge) Inc., Baton Rouge, East Baton Rouge	0	0	0	0	15,720	1,148,255	17,769	1,181,744	0
Baker Petroleum - Rayne Facility, Rayne, Acadia	30,613	0	0	88,890	0	49	10,543	130,095	0
Ashland Distribution Co., Baton Rouge, East Baton Rouge	0	0	0	14,990	0	0	6,440	21,430	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

# MAINE

## Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	6,992,174	112,257	7,104,431
Air Emissions	5,340,759	111,962	5,452,721
Surface Water Discharges	864,244	295	864,539
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	135,359	0	135,359
Other On-site Land Releases	651,812	0	651,812
Off-site Releases (Transfers Off-site to Disposal)*	736,433	7,804	744,237
<b>Total On- and Off-site Releases</b>	<b>7,728,607</b>	<b>120,061</b>	<b>7,848,668</b>
Recycled On-site	8,114,524	0	8,114,524
Recycled Off-site	2,185,531	0	2,185,531
Energy Recovery On-site	8,891,859	0	8,891,859
Energy Recovery Off-site	313,913	0	313,913
Treated On-site	45,534,357	13,600	45,547,957
Treated Off-site**	762,575	3,053	765,628
Quantity Released On- and Off-site***	7,910,546	114,868	8,025,414
<b>Total Production-related Waste Managed</b>	<b>73,713,305</b>	<b>131,521</b>	<b>73,844,826</b>
<b>Total Non-production-related Waste Managed</b>	<b>343</b>	<b>2</b>	<b>345</b>

## Transfers Off-site for Further Waste Management/Disposal

Recycling	2,107,218	0	2,107,218
Energy Recovery	238,467	0	238,467
Treatment	191,723	74	191,797
Publicly Owned Treatment Works (POTWs)	667,402	0	667,402
Metals and Metal Compounds*	71,569	0	71,569
Non-metal TRI Chemicals**	595,833	0	595,833
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	665,995	7,804	673,799
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>3,870,805</b>	<b>7,878</b>	<b>3,878,683</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

## For More Information . . .

### State Contact:

Rayna Leibowitz

(207) 626-4503

Fax: (207) 626-4499

E-mail: rayna.b.leibowitz@state.me.us

### EPA Regional Contact:

Dwight Peavey

(617) 918-1829

Fax: (617) 918-1810

E-mail: peavey.dwight@epa.gov

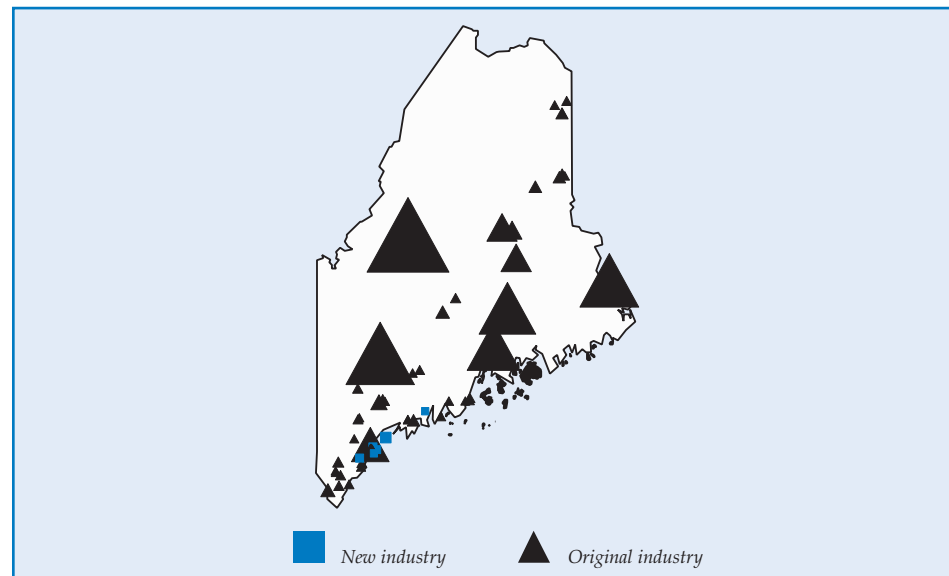
### To obtain TRI data use

assistance, call TRI User

Support Service (TRI-US):

(202) 260-1531

Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Maine. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

## State/TRI Data

Population	1,253,040
Square Miles	30,865
Total Facilities	82
Total Forms	311
Form As	26

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	38	50	46
Pounds	7,728,607	120,061	7,848,668
<b>National Rank for Total On-site Releases**</b>			
Rank	38	50	46
Pounds	6,992,174	112,257	7,104,431
<b>National Rank for Total Releases within State***</b>			
Rank	39	50	46
Pounds	7,597,122	152,032	7,749,154
<b>National Rank for Production-related Waste Managed</b>			
Rank	40	51	44
Pounds	73,713,305	131,521	73,844,826

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

# MAINE

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
67-56-1	Methanol	1,917,080	141,865	0	44,732	27,207	2,130,884	24,703	27,207	0
7664-93-9	Sulfuric acid	794,280	0	0	0	0	794,280	0	0	0
7664-41-7	Ammonia	744,806	43,582	0	0	0	788,388	0	0	0
--	Manganese compounds	5,588	192,114	0	370,686	202,680	771,068	250	167,680	35,000
7647-01-0	Hydrochloric acid	542,581	0	0	0	0	542,581	0	0	0
--	Nitrate compounds	365	379,253	0	110	103,692	483,420	0	103,692	0
--	Zinc compounds	26,005	25,971	0	270,444	2,225	324,645	15,710	1,225	1,000
--	Chromium compounds	378	80	0	960	213,847	215,265	0	203,161	10,686
110-54-3	n-Hexane	202,346	0	0	0	0	202,346	0	0	0
--	Glycol ethers	189,217	5,690	0	40	1,494	196,441	0	0	1,494

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	66,171	0	0	0	0	66,171	0	0	0
1634-04-4	Methyl tert-butyl ether	20,207	10	0	0	1,250	21,467	1,280	250	1,000
91-20-3	Naphthalene	7,671	5	0	0	1,500	9,176	0	750	750
108-88-3	Toluene	4,227	5	0	0	1,250	5,482	810	250	1,000
71-43-2	Benzene	4,640	10	0	0	750	5,400	180	250	500
110-54-3	n-Hexane	3,281	5	0	0	250	3,536	801	0	250
1330-20-7	Xylene (mixed isomers)	2,186	250	0	0	1,054	3,490	805	250	804
75-65-0	tert-Butyl alcohol	2,185	5	0	0	500	2,690	0	250	250
100-41-4	Ethylbenzene	882	5	0	0	750	1,637	180	250	500
110-82-7	Cyclohexane	500	0	0	0	500	1,000	0	250	250

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## MAINE

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
S.D. Warren Co. (Sappi Fine Paper North America), Skowhegan, Somerset	878,822	92,380	0	0	0	193,717	1,164,919	0	0
International Paper, Jay, Franklin	707,875	177,246	0	0	0	64,039	949,160	0	0
Georgia-Pacific Corp. Pulp & Bleached Board Div., Baileyville, Washington	547,477	138,239	0	0	109,959	0	795,675	0	0
Fort James Operating Co., Old Town, Penobscot	662,798	98,009	0	0	0	0	760,807	38,145	0
Champion Intl. Corp., Bucksport, Hancock	335,429	35,058	0	0	0	328,607	699,094	0	0
S. D. Warren Co., Westbrook, Cumberland	418,445	5,730	0	0	0	0	455,435	2,663	42,600
Lincoln Pulp & Paper Co. Inc. Eastern Paper Lincoln Mill, Lincoln, Penobscot	284,202	21,600	0	0	0	34,000	339,802	8,750	0
Great Northern Paper Inc., Millinocket, Penobscot	252,500	86,400	0	0	0	0	338,900	860	0
Spinnaker Coating, Westbrook, Cumberland	288,090	0	0	0	0	0	288,090	0	0
Great Northern Paper Inc., East Millinocket, Penobscot	44,000	125,800	0	0	0	0	169,800	150,000	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
W.F. Wyman Steam Station, Yarmouth, Cumberland	66,172	0	0	0	0	0	66,172	0	0
Gulf Oil L.P. South Portland Terminal, South Portland, Cumberland	19,108	20	0	0	0	0	19,128	2,500	2,304
Mobil Oil South Portland Terminal, South Portland, Cumberland	14,994	275	0	0	0	0	15,269	0	3,000
Motiva South Portland Terminal, South Portland, Cumberland	11,682	0	0	0	0	0	11,682	0	0
Monson Cos. Inc., South Portland, Cumberland	5	0	0	0	0	0	5	0	0
Mason Steam Station, Wiscasset, Lincoln	1	0	0	0	0	0	1	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.





# 1999 Toxics Release Inventory

## MAINE

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
S.D. Warren Co. (Sappi Fine Paper North America), Skowhegan, Somerset	0	0	1,031,000	0	10,093,665	0	1,172,239	12,296,904	0
International Paper, Jay, Franklin	0	0	49,043	0	10,195,300	0	957,130	11,201,473	50
Georgia-Pacific Corp. Pulp & Bleached Board Div., Baileyville, Washington	0	0	0	0	6,654,624	0	817,451	7,472,075	0
Fort James Operating Co., Old Town, Penobscot	0	0	21,000	0	6,553,690	0	799,623	7,374,313	0
Champion Intl. Corp., Bucksport, Hancock	0	0	0	0	0	0	699,092	699,092	0
S. D. Warren Co., Westbrook, Cumberland	65,200	0	127,631	33,800	1,852,253	0	554,336	2,633,220	0
Lincoln Pulp & Paper Co. Inc. Eastern Paper Lincoln Mill, Lincoln, Penobscot	0	150,300	156,000	0	2,809,630	0	353,790	3,469,720	0
Great Northern Paper Inc., Millinocket, Penobscot	0	0	0	0	1,963,000	0	340,000	2,303,000	0
Great Northern Paper Inc., East Millinocket, Penobscot	0	0	0	0	0	0	322,100	322,100	0
Spinnaker Coating, Westbrook, Cumberland	3,734,167	0	0	3,860	0	0	291,949	4,029,976	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
W.F. Wyman Steam Station, Yarmouth, Cumberland	0	0	0	0	0	0	66,001	66,001	0
Gulf Oil L.P. South Portland Terminal, South Portland, Cumberland	0	0	0	0	0	2,979	19,669	22,648	0
Mobil Oil South Portland Terminal, South Portland, Cumberland	0	0	0	0	0	0	17,510	17,510	0
Motiva South Portland Terminal, South Portland, Cumberland	0	0	0	0	11,400	74	11,682	23,156	0
Monson Cos. Inc., South Portland, Cumberland	0	0	0	0	2,200	0	5	2,205	1
Mason Steam Station, Wiscasset, Lincoln	0	0	0	0	0	0	1	1	1

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## MARYLAND

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	12,965,131	29,981,553	42,946,684
Air Emissions	7,993,798	29,622,447	37,616,245
Surface Water Discharges	2,625,929	223,646	2,849,575
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	34,700	34,700
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	2,345,404	100,760	2,446,164
Off-site Releases (Transfers Off-site to Disposal)*	661,090	373,312	1,034,402
<b>Total On- and Off-site Releases</b>	<b>13,626,221</b>	<b>30,354,865</b>	<b>43,981,086</b>
Recycled On-site	20,289,905	18	20,289,923
Recycled Off-site	6,268,088	430,284	6,698,372
Energy Recovery On-site	11,482,923	0	11,482,923
Energy Recovery Off-site	928,230	609	928,839
Treated On-site	26,757,669	72,316,641	99,074,310
Treated Off-site**	10,083,425	8,900	10,092,325
Quantity Released On- and Off-site***	13,642,248	30,342,021	43,984,269
<b>Total Production-related Waste Managed</b>	<b>89,452,488</b>	<b>103,098,473</b>	<b>192,550,961</b>
<b>Total Non-production-related Waste Managed</b>	<b>156</b>	<b>586</b>	<b>742</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	4,342,116	430,284	4,772,400
Energy Recovery	913,370	609	913,979
Treatment	6,650,030	8,888	6,658,918
Publicly Owned Treatment Works (POTWs)	3,395,501	0	3,395,501
Metals and Metal Compounds*	87,440	0	87,440
Non-metal TRI Chemicals**	3,308,061	0	3,308,061
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	593,802	373,312	967,114
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>15,894,819</b>	<b>813,093</b>	<b>16,707,912</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

Patricia Williams

(410) 631-3800

Fax: (410) 631-3873

E-mail: [pwilliams@mde.state.md.us](mailto:pwilliams@mde.state.md.us)

#### EPA Regional Contact:

Bill Reilly

(215) 814-2072

Fax: (215) 814-3114

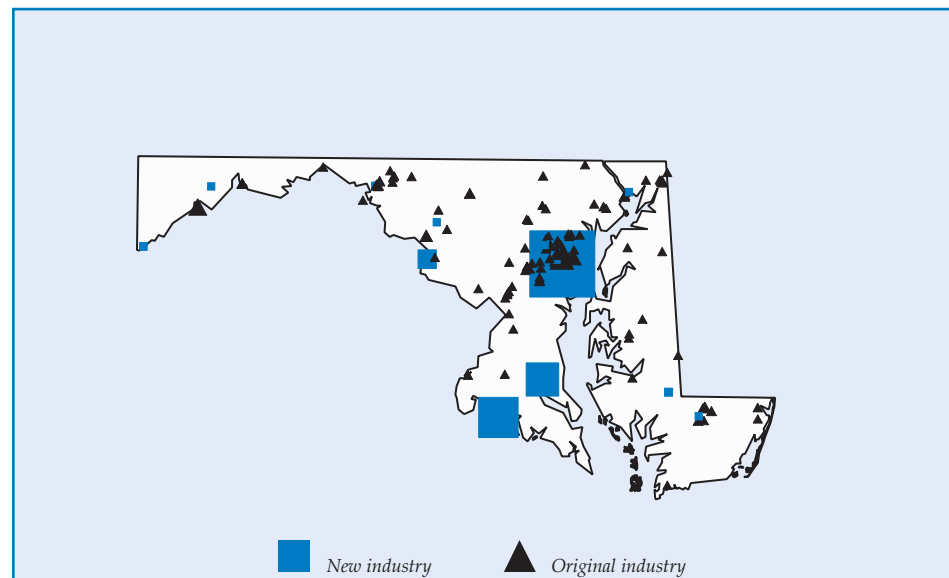
E-mail: [reilly.william@epa.gov](mailto:reilly.william@epa.gov)

#### To obtain TRI data use

assistance, call TRI User  
Support Service (TRI-US):

(202) 260-1531

Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Maryland. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	5,171,634
Square Miles	9,775
Total Facilities	195
Total Forms	676
Form As	154

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	36	24	31
Pounds	13,626,221	30,354,865	43,981,086
<b>National Rank for Total On-site Releases**</b>			
Rank	36	24	31
Pounds	12,965,131	29,981,553	42,946,684
<b>National Rank for Total Releases within State***</b>			
Rank	36	24	32
Pounds	13,881,617	30,560,396	44,442,013
<b>National Rank for Production-related Waste Managed</b>			
Rank	36	16	33
Pounds	89,452,488	103,098,473	192,550,961

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## MARYLAND

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Nitrate compounds	10	2,402,455	0	84,731	9,955	2,497,151	0	9,949	6
--	Manganese compounds	28,446	159,899	0	2,088,030	35,068	2,311,443	3,405	26,890	8,178
463-58-1	Carbonyl sulfide	1,594,000	0	0	0	0	1,594,000	0	0	0
100-42-5	Styrene	930,866	0	0	0	277	931,143	0	0	277
67-56-1	Methanol	839,628	19,950	0	0	66	859,644	102	66	0
7647-01-0	Hydrochloric acid	558,557	0	0	0	0	558,557	6,180	0	0
1330-20-7	Xylene (mixed isomers)	516,801	0	0	0	0	516,801	760	0	0
7664-41-7	Ammonia	441,231	24,099	0	17,960	3,480	486,770	255	2,628	852
7664-93-9	Sulfuric acid	444,337	0	0	0	0	444,337	5	0	0
--	Glycol ethers	384,300	0	0	5	232	384,537	1,250	232	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	24,863,671	0	0	0	0	24,863,671	0	0	0
7664-93-9	Sulfuric acid	3,253,552	0	0	0	0	3,253,552	0	0	0
7664-39-3	Hydrogen fluoride	1,329,877	0	0	0	0	1,329,877	0	0	0
7440-39-3	Barium	3,965	54,400	0	7,300	184,000	249,665	150,000	184,000	0
7439-96-5	Manganese	2,500	138,100	0	2,200	48,000	190,800	18,000	48,000	0
--	Zinc compounds	6,706	787	10,800	12,900	46,296	77,489	1,952	46,291	5
7440-47-3	Chromium	1,500	20,250	0	1,350	32,000	55,100	0	32,000	0
7440-38-2	Arsenic	835	500	0	500	51,000	52,835	0	51,000	0
--	Barium compounds	1,863	195	1,400	48,500	0	51,958	463	0	0
7440-02-0	Nickel	38,250	1,400	0	250	12,000	51,900	0	12,000	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## MARYLAND

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Millennium Inorganic Chemicals Inc. - Hawkins Point Plant, Baltimore, Baltimore City	1,141,515	140,000	0	0	0	1,200,000	2,481,515	0	0
Grace Davison, Baltimore, Baltimore City	268,406	1,339,800	0	0	0	0	1,608,206	13,953	9,441
Westvaco Corp. Fine Papers Div., Luke, Allegany	1,527,179	0	0	0	0	8,064	1,535,243	244,670	95
Bethlehem Steel Corp. - Sparrows Point Div., Sparrows Point, Baltimore	110,700	33,505	0	0	0	1,023,200	1,167,405	0	7,060
Chemetals Inc. Baltimore Plant, Baltimore, Baltimore City	22,243	988,179	0	0	0	23,889	1,034,311	58	0
Eastalco Aluminum Co., Frederick, Frederick	600,600	40	0	0	0	1,000	601,640	755	0
GM North American Truck Group Baltimore, Baltimore, Baltimore City	453,040	903	0	0	0	0	453,943	220	1,961
Garden State Tanning Inc. W. D. Byron Plant, Williamsport, Washington	291,471	62,412	0	0	0	5	353,888	25,540	58,381
Lehigh Portland Cement Co., Union Bridge, Carroll	307,005	0	0	0	0	1,005	308,010	0	0
Terumo Medical Corp., Elkton, Cecil	300,876	0	0	0	0	0	300,876	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Brandon Shores & Wagner Complex, Baltimore, Anne Arundel	12,569,228	5,165	0	0	0	20,510	12,594,903	0	0
Pepco Morgantown Generating Station, Newburg, Charles	6,905,795	104,150	0	0	0	3,100	7,013,045	156,000	0
Chalk Point Generating Station, Aquasco, Prince Georges	5,493,125	38,000	0	0	0	2,200	5,533,325	154,000	0
Dickerson Generating Station, Dickerson, Montgomery	2,331,755	73,000	0	0	0	6,800	2,411,555	62,000	0
C. P. Crane Generating Station, Baltimore, Baltimore City	1,887,944	72	0	0	0	0	1,888,016	0	0
R. Paul Smith Power Station, Williamsport, Washington	192,292	140	0	0	0	26,000	218,432	0	0
Vienna Power Plant, Vienna, Dorchester	162,558	0	0	0	0	0	162,558	0	0
Mettiki Coal L.L.C., Oakland, Garrett	6,478	1,515	0	34,700	0	42,150	84,843	0	0
Baltimore Terminal, Baltimore, Baltimore City	37,957	0	0	0	0	0	37,957	16	0
Citgo Petroleum Corp., Baltimore, Baltimore City	10,834	0	0	0	0	0	10,834	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## MARYLAND

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Millennium Inorganic Chemicals Inc. - Hawkins Point Plant, Baltimore, Baltimore City	0	0	0	0	3,700,215	0	2,481,515	6,181,730	0
Westvaco Corp. Fine Papers Div., Luke, Allegany	0	1	9,132,800	200	2,508,000	2,612,815	1,780,008	16,033,824	0
Grace Davison, Baltimore, Baltimore City	2,972,700	30,524	0	0	4,708,560	440	1,631,417	9,343,641	0
Bethlehem Steel Corp. - Sparrows Point Div., Sparrows Point, Baltimore	0	0	0	0	0	0	1,168,200	1,168,200	0
Chemetals Inc. Baltimore Plant, Baltimore, Baltimore City	1,429,440	0	0	0	200	0	1,034,368	2,464,008	0
Eastalco Aluminum Co., Frederick, Frederick	13,000,000	2,134,000	0	0	2,443,000	0	600,300	18,177,300	0
GM North American Truck Group Baltimore, Baltimore, Baltimore City	0	422,457	0	142	86,766	5,291	481,242	995,898	0
Garden State Tanning Inc. W. D. Byron Plant, Williamsport, Washington	0	80,236	0	0	335,646	0	415,227	831,109	0
Lehigh Portland Cement Co., Union Bridge, Carroll	0	1,000	0	0	0	0	307,100	308,100	0
Terumo Medical Corp., Elkton, Cecil	0	0	0	0	0	50,795	300,876	351,671	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Brandon Shores & Wagner Complex, Baltimore, Anne Arundel	0	0	0	0	0	0	12,595,210	12,595,210	0
Pepco Morgantown Generating Station, Newburg, Charles	0	0	0	0	1,014,000	0	7,167,004	8,181,004	0
Chalk Point Generating Station, Aquasco, Prince Georges	0	0	0	0	67,783,000	0	5,683,005	73,466,005	0
Dickerson Generating Station, Dickerson, Montgomery	0	0	0	0	3,209,000	0	2,470,000	5,679,000	0
C. P. Crane Generating Station, Baltimore, Baltimore City	0	0	0	0	0	0	1,888,020	1,888,020	0
R. Paul Smith Power Station, Williamsport, Washington	0	0	0	0	0	0	218,000	218,000	0
Vienna Power Plant, Vienna, Dorchester	0	0	0	0	0	0	162,558	162,558	0
Mettiki Coal L.L.C., Oakland, Garrett	0	0	0	0	43,000	0	84,000	127,000	0
Baltimore Terminal, Baltimore, Baltimore City	0	0	0	609	137,427	5,695	37,955	181,686	0
Citgo Petroleum Corp., Baltimore, Baltimore City	0	0	0	0	0	0	10,835	10,835	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

# MASSACHUSETTS

## Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	3,934,233	4,993,046	8,927,279
Air Emissions	3,838,311	4,986,612	8,824,923
Surface Water Discharges	93,926	1,346	95,272
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	1,996	5,088	7,084
Off-site Releases (Transfers Off-site to Disposal)*	1,668,582	1,280,344	2,948,926
<b>Total On- and Off-site Releases</b>	<b>5,602,815</b>	<b>6,273,390</b>	<b>11,876,205</b>
Recycled On-site	25,216,035	677,652	25,893,687
Recycled Off-site	23,702,625	217,784	23,920,409
Energy Recovery On-site	6,244,001	0	6,244,001
Energy Recovery Off-site	6,412,974	180,833	6,593,807
Treated On-site	20,245,285	703,830	20,949,115
Treated Off-site**	13,681,402	304,851	13,986,253
Quantity Released On- and Off-site***	5,670,008	6,424,880	12,094,888
<b>Total Production-related Waste Managed</b>	<b>101,172,330</b>	<b>8,509,830</b>	<b>109,682,160</b>
<b>Total Non-production-related Waste Managed</b>	<b>438,497</b>	<b>4,429</b>	<b>442,926</b>

## Transfers Off-site for Further Waste Management/Disposal

Recycling	22,698,303	238,937	22,937,240
Energy Recovery	6,359,779	240,794	6,600,573
Treatment	4,319,671	369,329	4,689,000
Publicly Owned Treatment Works (POTWs)	9,641,966	30	9,641,996
Metals and Metal Compounds*	26,197	0	26,197
Non-metal TRI Chemicals**	9,615,769	30	9,615,799
Other Off-site Transfers****	10,724	0	10,724
Off-site Transfers to Disposal (not including metals to POTWs)	1,670,295	1,332,789	3,003,084
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>44,700,738</b>	<b>2,181,879</b>	<b>46,882,617</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

## For More Information . . .

### State Contact:

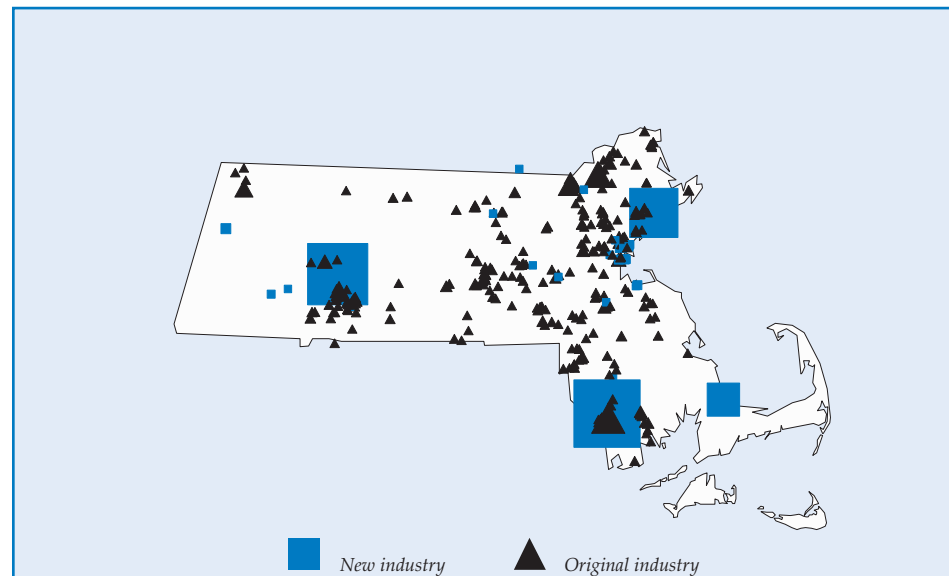
Walter Hope  
(617) 292-5982  
Fax: (617) 292-5858  
E-mail: walter.hope@state.ma.us

### EPA Regional Contact:

Dwight Peavey  
(617) 918-1829  
Fax: (617) 918-1810  
E-mail: peavey.dwight@epa.gov

### To obtain TRI data use

assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Massachusetts. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

## State/TRI Data

Population	6,175,169
Square Miles	7,838
Total Facilities	472
Total Forms	1,464
Form As	197

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	43	42	44
Pounds	5,602,815	6,273,390	11,876,205
<b>National Rank for Total On-site Releases**</b>			
Rank	44	42	44
Pounds	3,934,233	4,993,046	8,927,279
<b>National Rank for Total Releases within State***</b>			
Rank	43	42	45
Pounds	5,502,866	5,598,323	11,101,189
<b>National Rank for Production-related Waste Managed</b>			
Rank	35	43	41
Pounds	101,172,330	8,509,830	109,682,160

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

# MASSACHUSETTS

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-Site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
108-88-3	Toluene	1,258,537	0	0	0	11,021	1,269,558	7,204	5,860	5,161
--	Zinc compounds	6,649	262	0	0	646,757	653,668	13,504	346,974	299,783
78-93-3	Methyl ethyl ketone	372,013	0	0	0	16,715	388,728	36,836	13,782	2,933
67-56-1	Methanol	348,179	0	0	500	4,908	353,587	15,800	0	4,908
79-01-6	Trichloroethylene	269,501	1	0	0	2,460	271,962	67,194	2,460	0
--	Glycol ethers	249,595	0	0	0	2,368	251,963	15,190	1,944	424
71-36-3	n-Butyl alcohol	225,365	0	0	0	0	225,365	0	0	0
7664-41-7	Ammonia	208,177	27	0	426	3,153	211,783	1,700	3,102	51
--	Antimony compounds	1,609	15	0	0	203,376	205,000	1,070	127,878	75,498
--	Lead compounds	956	321	0	0	155,315	156,592	7,923	45,013	110,302

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-Site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	3,602,326	0	0	0	0	3,602,326	0	0	0
--	Lead compounds	0	5	0	0	590,528	590,533	0	44,619	545,909
7664-93-9	Sulfuric acid	519,249	0	0	0	0	519,249	0	0	0
7664-41-7	Ammonia	468,719	5	0	0	12,000	480,724	0	12,000	0
--	Nickel compounds	24,011	489	0	1,200	187,817	213,517	55,812	55,240	132,577
--	Barium compounds	1,052	84	0	3,245	187,329	191,710	13,309	187,325	4
7664-39-3	Hydrogen fluoride	156,500	0	0	0	0	156,500	0	0	0
1634-04-4	Methyl tert-butyl ether	108,861	161	0	0	4,293	113,315	1,096	1,500	2,793
75-09-2	Dichloromethane	2,543	0	0	0	109,920	112,463	695	0	109,920
--	Zinc compounds	881	136	0	420	74,500	75,937	878	74,500	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

# MASSACHUSETTS

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Globe Mfg. Co., Fall River, Bristol	407,007	0	0	0	0	0	407,007	679	64,960
Crown Cork & Seal Co. Inc., Lawrence, Essex	323,000	0	0	0	0	0	323,000	5	250
Ideal Tape Co., Lowell, Middlesex	191,998	0	0	0	0	0	191,998	0	0
Macdermid Graphic Arts, Adams, Berkshire	151,000	0	0	0	0	0	151,000	0	0
Rexam Image Prods., South Hadley, Hampshire	145,543	0	0	0	0	0	145,543	2	2,044
Solutia Inc., Springfield, Hampden	106,959	0	0	0	0	0	106,959	100	0
Perstorp Compounds Inc., Florence, Hampshire	93,344	0	0	0	0	300	93,644	0	0
Barry Controls, Brighton, Suffolk	92,782	27	0	0	0	0	92,809	10,096	0
Duro Finishing, Fall River, Bristol	75,416	0	0	0	0	0	75,416	180	2,752
Bradford Inds. Inc., Lowell, Middlesex	74,400	0	0	0	0	0	74,400	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection		On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
			Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
USGen New England Inc., Somerset, Bristol	1,253,028	110	0	0	0	2,188	1,255,326	108,630	0
Mt. Tom Station, Holyoke, Hampden	1,124,057	0	0	0	0	2,900	1,126,957	58,215	4
US Gen New England Inc. - Salem Harbor Station, Salem, Essex	872,585	345	0	0	0	0	872,930	244,590	0
Somerset Power L.L.C., Somerset, Bristol	759,775	31	0	0	0	0	759,806	61,500	0
Southern Energy - Canal Station, Sandwich, Barnstable	535,329	313	0	0	0	0	535,642	0	96,631
Mystic Station, Charlestown, Suffolk	84,064	0	0	0	0	0	84,064	0	35,946
Pittsfield Generating Co. L.P., Pittsfield, Berkshire	53,260	0	0	0	0	0	53,260	0	0
Gulf Oil L.P. Chelsea Terminal, Chelsea, Suffolk	44,084	15	0	0	0	0	44,099	1,020	3,520
New Boston Station, South Boston, Suffolk	43,386	0	0	0	0	0	43,386	0	0
Masspower, Indian Orchard, Hampden	38,880	0	0	0	0	0	38,880	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.





# 1999 Toxics Release Inventory

# MASSACHUSETTS

## Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Globe Mfg. Co., Fall River, Bristol	4,831,963	0	0	9,434	0	71,960	407,686	5,321,043	0
Crown Cork & Seal Co. Inc., Lawrence, Essex	0	0	0	0	67,000	7	320,290	387,297	0
American Insulated Wire Northeast Cable, Attleboro, Bristol	1,838	4,344,300	0	6,300	27,000	0	215,790	4,595,228	0
Spalding Sports Worldwide, Chicopee, Hampden	111,270	0	0	0	0	26	207,915	319,211	1
Ideal Tape Co., Lowell, Middlesex	1,450,778	178,623	0	476,139	0	0	191,998	2,297,538	0
Reflek Corp., Fall River, Bristol	0	0	0	0	133,796	0	169,026	302,822	0
Precision Lithograting Corp., South Hadley, Hampshire	0	0	0	0	245,379	0	166,556	411,935	0
Macdermid Graphic Arts, Adams, Berkshire	902,000	0	0	47,000	54,000	0	151,000	1,154,000	1
Rexam Image Prods., South Hadley, Hampshire	0	55,935	0	158,047	3,292,338	2,066	144,998	3,653,384	6
Titleist & Foot-Joy Worldwide: Ball Plant II, North Dartmouth, Bristol	130,000	41	0	1,314	0	147	120,000	251,502	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

## Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
USGen New England Inc., Somerset, Bristol	0	0	0	0	0	0	1,363,700	1,363,700	0
Mt. Tom Station, Holyoke, Hampden	0	0	0	0	0	0	1,186,000	1,186,000	0
US Gen New England Inc. - Salem Harbor Station, Salem, Essex	0	670	0	0	0	0	1,117,510	1,118,180	0
Somerset Power L.L.C., Somerset, Bristol	0	0	0	0	703,200	0	820,900	1,524,100	0
Clean Harbors of Braintree Inc., Braintree, Norfolk	338,220	89,471	0	128,745	0	273,872	803,711	1,634,019	5
Southern Energy - Canal Station, Sandwich, Barnstable	0	0	0	0	0	0	632,273	632,273	0
Mystic Station, Charlestown, Suffolk	0	0	0	0	0	0	120,010	120,010	0
Pittsfield Generating Co. L.P., Pittsfield, Berkshire	0	0	0	0	630	30	53,000	53,660	0
Gulf Oil L.P. Chelsea Terminal, Chelsea, Suffolk	0	0	0	0	0	1,735	44,429	46,164	0
New Boston Station, South Boston, Suffolk	0	0	0	0	0	0	43,386	43,386	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## MICHIGAN

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	43,176,027	54,008,955	97,184,982
Air Emissions	36,907,358	39,252,191	76,159,549
Surface Water Discharges	1,126,839	138,739	1,265,578
Underground Injection Class I Wells	2,571,894	0	2,571,894
Underground Injection Class II-V Wells	48	0	48
On-site Land Releases to RCRA Subtitle C Landfills	49,056	7,008,813	7,057,869
Other On-site Land Releases	2,520,832	7,609,212	10,130,044
Off-site Releases (Transfers Off-site to Disposal)*	29,292,730	15,808,802	45,101,532
<b>Total On- and Off-site Releases</b>	<b>72,468,757</b>	<b>69,817,757</b>	<b>142,286,514</b>
Recycled On-site	433,415,864	20,818,971	454,234,835
Recycled Off-site	125,410,264	170,684	125,580,948
Energy Recovery On-site	62,125,600	0	62,125,600
Energy Recovery Off-site	74,367,494	57,634,988	132,002,482
Treated On-site	96,691,662	8,379,879	105,071,541
Treated Off-site**	35,062,778	18,318,633	53,381,411
Quantity Released On- and Off-site***	73,419,983	69,813,092	143,233,075
<b>Total Production-related Waste Managed</b>	<b>900,493,645</b>	<b>175,136,247</b>	<b>1,075,629,892</b>
<b>Total Non-production-related Waste Managed</b>	<b>24,198</b>	<b>1,310</b>	<b>25,508</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	124,124,698	136,919	124,261,617
Energy Recovery	73,817,688	59,052,781	132,870,469
Treatment	24,953,824	18,863,299	43,817,123
Publicly Owned Treatment Works (POTWs)	16,234,634	37,073	16,271,707
Metals and Metal Compounds*	135,010	2,592	137,602
Non-metal TRI Chemicals**	16,099,624	34,481	16,134,105
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	29,536,211	15,837,624	45,373,835
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>268,667,055</b>	<b>93,927,696</b>	<b>362,594,751</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

Robert Jackson  
(517) 373-2731

Fax: (517) 241-7966

E-mail: JACKSORC@state.mi.us

#### EPA Regional Contact:

Thelma Codina  
(312) 886-6219

Fax: (312) 353-4788

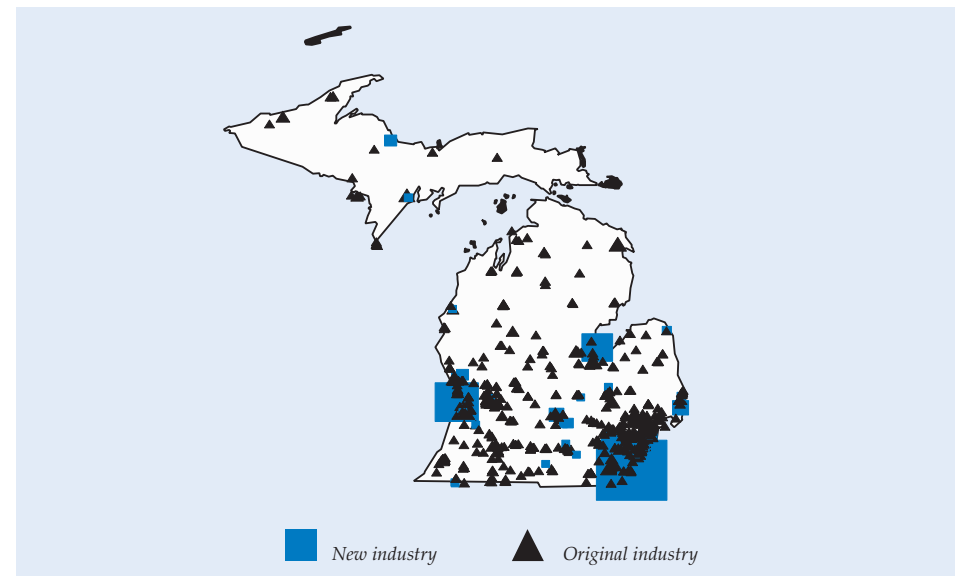
E-mail: codina.thelma@epa.gov

#### To obtain TRI data use

assistance, call TRI User  
Support Service (TRI-US):

(202) 260-1531

Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Michigan. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	9,863,775
Square Miles	56,809
Total Facilities	919
Total Forms	3,586
Form As	415

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	11	14	15
Pounds	72,468,757	69,817,757	142,286,514
<b>National Rank for Total On-site Releases**</b>			
Rank	19	20	19
Pounds	43,176,027	54,008,955	97,184,982
<b>National Rank for Total Releases within State***</b>			
Rank	7	14	11
Pounds	91,954,624	71,334,037	163,288,661
<b>National Rank for Production-related Waste Managed</b>			
Rank	6	8	8
Pounds	900,493,645	175,136,247	1,075,629,892

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## MICHIGAN

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Zinc compounds	223,982	9,570	8,650	97,820	21,174,513	21,514,535	1,905,176	20,902,731	333,999
1330-20-7	Xylene (mixed isomers)	7,168,989	41	0	0	53,103	7,222,133	13,582	42,290	11,613
67-56-1	Methanol	3,970,634	184,778	2,326,000	3,576	3,834	6,488,822	3,058	1,734	2,100
108-88-3	Toluene	4,159,009	607	4,534	18,692	38,870	4,221,712	20,519	29,501	9,369
7647-01-0	Hydrochloric acid	2,546,096	0	5	0	0	2,546,101	0	0	0
--	Manganese compounds	57,340	23,271	3,970	522,039	1,782,252	2,388,872	346,839	1,750,100	33,758
7664-41-7	Ammonia	1,951,103	274,585	29,383	14,043	25,942	2,295,056	7,516	25,942	0
7439-96-5	Manganese	47,628	175	0	560,114	1,685,851	2,293,768	1,306,254	1,702,931	33,963
--	Glycol ethers	2,174,766	1,091	0	6,344	84,419	2,266,620	32,235	45,278	40,301
110-54-3	n-Hexane	1,738,987	5	6	0	261	1,739,259	252	261	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	30,573,128	0	0	0	0	30,573,128	0	0	0
--	Barium compounds	121,483	54,484	0	8,503,222	3,662,565	12,341,754	612	3,662,402	163
--	Zinc compounds	173,827	17,382	0	984,089	4,143,680	5,318,978	198,099	4,130,704	12,976
--	Lead compounds	2,977	6,515	0	328,858	3,727,549	4,065,899	30,542	3,683,595	43,954
7664-93-9	Sulfuric acid	3,153,667	0	0	0	0	3,153,667	0	0	0
7664-39-3	Hydrogen fluoride	2,397,725	0	0	0	0	2,397,725	251	0	0
7440-66-6	Zinc (fume or dust)	2,346,346	5	0	0	4,780	2,351,131	2,300	4,780	0
--	Copper compounds	75,739	14,133	0	438,157	1,164,452	1,692,481	27,571	1,149,843	14,609
--	Nickel compounds	26,744	1,047	0	780,614	732,166	1,540,571	44,367	628,978	103,188
--	Selenium compounds	18,306	2,733	0	799,171	422,056	1,242,266	106	422,056	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## MICHIGAN

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Holnam Inc. Dundee Plant, Dundee, Monroe	2,613,922	0	0	0	0	0	2,613,922	0	0
Pfizer, Inc. Parke-Davis Div., Holland, Ottawa	105,388	0	2,311,579	0	0	0	2,416,967	9,400	0
GMC Gmtg Pontiac East Assembly, Pontiac, Oakland	1,709,363	0	0	0	0	0	1,709,363	534	960
GMC Gmpt Saginaw Metal Casting Ops., Saginaw, Saginaw	161,094	0	0	0	0	1,344,928	1,506,022	1,514	9,146
Fibermark, Rochester, Oakland	1,460,962	0	0	0	0	0	1,460,962	0	0
Lafarge Corp. (Including Systech Env. Corp.), Alpena, Alpena	1,044,684	26	0	0	0	347,800	1,392,510	0	15
Vemco Inc., Grand Blanc, Genesee	1,166,620	0	0	0	0	0	1,166,620	0	0
Mead Paper Div., Escanaba, Delta	612,805	44,210	0	0	0	506,013	1,163,028	0	0
GMC Mlcg Hamtramck Assembly, Detroit, Wayne	1,064,544	0	0	0	0	0	1,064,544	1,292	39,600
GM Lansing Plants 2,3,&6(Body), Lansing, Ingham	872,760	0	0	0	0	0	872,760	128,586	9,607

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Detroit Edison Monroe Power Plant, Monroe, Monroe	11,248,647	14,459	0	0	0	3,540,900	14,804,006	0	0
J. H. Campbell Generating Plant, West Olive, Ottawa	7,332,801	2,963	0	0	0	1,038,580	8,374,344	0	0
Wayne Disposal Inc., Belleville, Wayne	4,871	0	0	0	7,008,813	0	7,013,684	3,586,632	0
De Karn - JC Weadock Generating Plt., Essexville, Bay	4,533,792	45,875	0	0	0	840,730	5,420,397	0	0
Detroit Edison-Trenton Channel Power Plant, Trenton, Wayne	2,623,205	5,027	0	0	0	61,230	2,689,462	713,030	0
Grand Haven Board of Light & Power, Grand Haven, Ottawa	2,511,983	36	0	0	0	0	2,512,019	10,102	0
Detroit Edison - River Rouge Power Plant, River Rouge, Wayne	2,291,306	16,919	0	0	0	15,840	2,324,065	689,040	0
J.R. Whiting Generating Plant, Luna Pier, Monroe	1,778,279	0	0	0	0	243,000	2,021,279	0	0
Detroit Edison-St. Clair Power Plant, East China Township, St Clair	1,243,073	3,600	0	0	0	689,635	1,936,308	0	0
Lansing Board of Water & Light- Eckert Station, Lansing, Ingham	1,607,088	23,478	0	0	0	0	1,630,566	545,778	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## MICHIGAN

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Rouge Steel Co., Dearborn, Wayne	0	382,500	0	0	0	0	11,907,800	12,290,300	2
National Steel Corp. Greatlakes Ops., Ecorse, Wayne	7,992,123	1,306	0	0	3,128,000	26,287	10,381,333	21,529,049	1
Holnam Inc. Dundee Plant, Dundee, Monroe	0	0	0	0	0	0	2,613,922	2,613,922	0
Pfizer, Inc. Parke-Davis Div., Holland, Ottawa	2,194,000	817,500	0	17,715,650	2,567,374	1,953,550	2,426,038	27,674,112	30
GMC Gmtg Pontiac East Assembly, Pontiac, Oakland	0	1,365,182	0	368,410	979,169	83,000	1,710,470	4,506,231	0
GMC Gmpt Saginaw Metal Casting Ops., Saginaw, Saginaw	0	56,446	0	0	0	2,491	1,517,700	1,576,637	0
Fibermark, Rochester, Oakland	0	0	0	0	0	47,202	1,460,030	1,507,232	0
Lafarge Corp. (Including Systech Env. Corp.), Alpena, Alpena	0	0	29,290,000	0	30	1,145	1,391,057	30,682,232	0
Mead Paper Div., Escanaba, Delta	0	0	1,980,000	0	8,925,300	0	1,203,100	12,108,400	0
Vemco Inc., Grand Blanc, Genesee	0	702,946	0	0	1,073,417	0	1,166,620	2,942,983	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Detroit Edison Monroe Power Plant, Monroe, Monroe	0	0	0	0	1,960,000	0	14,799,500	16,759,500	0
Wayne Disposal Inc., Belleville, Wayne	0	0	0	0	230,366	2	10,600,524	10,830,892	6
USL City Environmental Inc., Detroit, Wayne	0	0	0	0	0	0	8,985,045	8,985,045	10
J. H. Campbell Generating Plant, West Olive, Ottawa	0	0	0	0	843,000	0	8,374,000	9,217,000	210
De Karn - JC Weadock Generating Plt., Essexville, Bay	0	0	0	0	534,000	0	5,416,960	5,950,960	0
Detroit Edison-Trenton Channel Power Plant, Trenton, Wayne	0	0	0	0	533,000	0	3,408,000	3,941,000	0
Detroit Edison - River Rouge Power Plant, River Rouge, Wayne	0	0	0	0	334,000	0	3,008,000	3,342,000	0
Grand Haven Board of Light & Power, Grand Haven, Ottawa	0	0	0	0	0	0	2,522,115	2,522,115	0
Lansing Board of Water & Light- Eckert Station, Lansing, Ingham	0	69,500	0	0	0	0	2,176,344	2,245,844	7
J.R. Whiting Generating Plant, Luna Pier, Monroe	0	0	0	0	198,000	0	2,021,000	2,219,000	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## MINNESOTA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	16,811,453	9,908,911	26,720,364
Air Emissions	14,757,728	976,779	15,734,507
Surface Water Discharges	1,735,699	20,572	1,756,271
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	44,250	0	44,250
Other On-site Land Releases	273,776	8,911,560	9,185,336
Off-site Releases (Transfers Off-site to Disposal)*	3,268,886	1,233,337	4,502,223
<b>Total On- and Off-site Releases</b>	<b>20,080,339</b>	<b>11,142,248</b>	<b>31,222,587</b>
Recycled On-site	204,704,491	4,307,188	209,011,679
Recycled Off-site	21,596,576	1,325,831	22,922,407
Energy Recovery On-site	4,659,701	0	4,659,701
Energy Recovery Off-site	2,179,958	72,358	2,252,316
Treated On-site	44,229,956	987,943	45,217,899
Treated Off-site**	17,053,519	20,027	17,073,546
Quantity Released On- and Off-site***	20,219,005	11,094,008	31,313,013
<b>Total Production-related Waste Managed</b>	<b>314,643,206</b>	<b>17,807,355</b>	<b>332,450,561</b>
<b>Total Non-production-related Waste Managed</b>	<b>225</b>	<b>118</b>	<b>343</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	22,998,773	1,325,942	24,324,715
Energy Recovery	2,225,613	72,058	2,297,671
Treatment	2,604,840	3,494	2,608,334
Publicly Owned Treatment Works (POTWs)	14,654,509	17,872	14,672,381
Metals and Metal Compounds*	169,774	1,308	171,082
Non-metal TRI Chemicals**	14,484,735	16,564	14,501,299
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	3,332,488	1,232,030	4,564,518
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>45,816,223</b>	<b>2,651,396</b>	<b>48,467,619</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

Steve Tomlyanovich

(651) 282-5396

Fax: (651) 296-0459

E-mail: [steve.tomlyanovich@state.mn.us](mailto:steve.tomlyanovich@state.mn.us)

#### EPA Regional Contact:

Thelma Codina

(312) 886-6219

Fax: (312) 353-4788

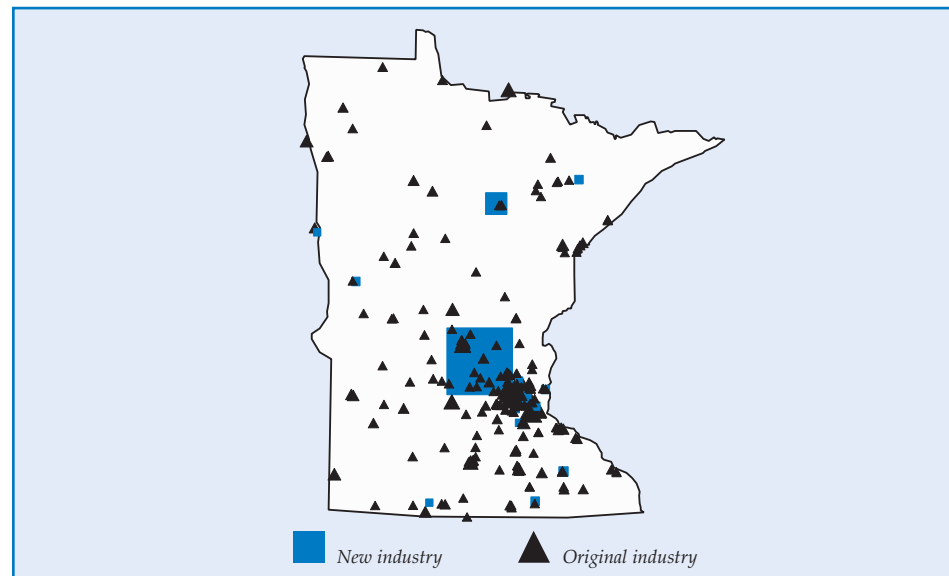
E-mail: [codina.thelma@epa.gov](mailto:codina.thelma@epa.gov)

#### To obtain TRI data use

assistance, call TRI User  
Support Service (TRI-US):

(202) 260-1531

Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Minnesota. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	4,775,508
Square Miles	79,617
Total Facilities	467
Total Forms	1,388
Form As	294

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	34	36	36
Pounds	20,080,339	11,142,248	31,222,587
<b>National Rank for Total On-site Releases**</b>			
Rank	34	36	35
Pounds	16,811,453	9,908,911	26,720,364
<b>National Rank for Total Releases within State***</b>			
Rank	35	36	36
Pounds	18,232,877	11,360,701	29,593,578
<b>National Rank for Production-related Waste Managed</b>			
Rank	23	37	29
Pounds	314,643,206	17,807,355	332,450,561

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## MINNESOTA

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
100-42-5	Styrene	1,901,893	5	0	0	9	1,901,907	0	9	0
108-88-3	Toluene	1,680,313	17	0	0	1,940	1,682,270	2,800	288	1,652
110-54-3	n-Hexane	1,611,001	4	0	250	686	1,611,941	0	0	686
67-56-1	Methanol	1,545,979	146	0	0	4,934	1,551,059	1,100	4,934	0
1330-20-7	Xylene (mixed isomers)	1,416,497	54	0	0	3,519	1,420,070	1,800	1,697	1,822
--	Nitrate compounds	925	1,235,739	0	43,837	53,185	1,333,686	0	9,185	44,000
7664-41-7	Ammonia	1,010,125	94,409	0	50,031	28,910	1,183,475	4	28,990	0
--	Copper compounds	2,519	122	0	0	935,677	938,318	6,821	9,253	926,424
78-93-3	Methyl ethyl ketone	857,874	97	0	0	188	858,159	1,100	0	188
--	Glycol ethers	769,239	10	0	0	457	769,706	2,501	0	457

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Barium compounds	62,034	10,385	0	6,563,535	1,053,168	7,689,122	55,240	1,053,148	20
--	Manganese compounds	8,480	8,000	0	1,160,020	26,235	1,202,735	10,640	26,230	5
--	Zinc compounds	6,526	819	0	447,020	27,091	481,456	161,822	20,145	6,947
--	Copper compounds	5,640	975	0	353,020	19,415	379,050	2,870	19,410	5
7647-01-0	Hydrochloric acid	362,930	0	0	0	0	362,930	0	0	0
7664-93-9	Sulfuric acid	221,270	0	0	0	0	221,270	0	0	0
--	Lead compounds	1,355	0	0	182,010	20	183,385	0	20	0
--	Nickel compounds	12,099	337	0	69,025	99,560	181,021	0	99,560	0
7664-39-3	Hydrogen fluoride	137,025	0	0	0	0	137,025	0	0	0
7664-41-7	Ammonia	121,097	0	0	5	0	121,102	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

# MINNESOTA

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Koch Petroleum Group L.P., Rosemount, Dakota	502,608	838,919	0	0	0	64	1,341,591	24,202	3,880
3M Cottage Grove Center, Cottage Grove, Washington	225,351	533,188	0	0	0	0	758,539	296	194,978
Ford Motor Co. Twin Cities Assembly Plant, Saint Paul, Ramsey	728,303	0	0	0	0	0	728,303	2,062	14,461
Frigidaire Home Prods. - Freezer, Saint Cloud, Stearns	689,015	0	0	0	0	0	689,015	62,000	0
3M Hutchinson, Hutchinson, Mc Leod	635,650	0	0	0	0	0	635,650	10,010	2,200
Boise Cascade Corp., International Falls, Koochiching	512,513	80,830	0	0	0	0	593,343	23,018	0
Cenex Harvest States Oilseed Processing & Refining, Mankato, Blue Earth	544,000	250	0	0	250	0	544,500	0	0
3M St. Paul East Side Site, Saint Paul, Ramsey	424,617	0	0	0	0	0	424,617	2,354	0
Larson-Glastron Boats Inc., Little Falls, Morrison	410,441	0	0	0	0	0	410,441	0	0
Crown Cork & Seal Co. Inc., Owatonna, Steele	376,000	0	0	0	0	0	376,000	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Northern States Power Co., Becker, Sherburne	105,000	0	0	0	0	7,011,230	7,116,230	695	0
Boswell Energy Center, Cohasset, Itasca	123,070	10,870	0	0	0	1,586,025	1,719,965	75	25
Rochester Public Utilities Silver Lake Plant, Rochester, Olmsted	244,365	0	0	0	0	0	244,365	13,005	0
Austin Utilities Northeast Power Station, Austin, Mower	150,520	15	0	0	0	0	150,535	3,260	0
Otter Tail Power Co. Hoot Lake Plant, Fergus Falls, Otter Tail	10,901	0	0	0	0	130,000	140,901	0	0
Laskin Energy Center, Hoyt Lakes, St Louis	2,105	5,800	0	0	0	130,005	137,910	10	0
A.S. King Generating Plant, Bayport, Washington	112,548	3,374	0	0	0	25	115,947	634,075	0
LSP - Cottage Grove L.P., Cottage Grove, Washington	107,005	0	0	0	0	0	107,005	0	0
Black Dog Generating Plant, Burnsville, Dakota	23,815	130	0	0	0	54,005	77,950	120,500	5
Riverside Generating Plant, Minneapolis, Hennepin	58,904	377	0	0	0	265	59,546	326,558	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.





# 1999 Toxics Release Inventory

## MINNESOTA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
North Star Recycling, Saint Paul, Ramsey	0	0	0	0	0	0	1,450,566	1,450,566	0
Koch Petroleum Group L.P., Rosemount, Dakota	137,338	73,187	0	0	2,758,151	482	1,364,332	4,333,490	0
3M Cottage Grove Center, Cottage Grove, Washington	0	876,580	32,277	457,754	15,587,788	26,819	953,813	17,935,031	0
Frigidaire Home Prods. - Freezer, Saint Cloud, Stearns	0	55,000	0	0	0	6,000	751,000	812,000	0
Ford Motor Co. Twin Cities Assembly Plant, Saint Paul, Ramsey	0	893,000	0	220	460,800	19,300	744,000	2,117,320	0
3M Hutchinson, Hutchinson, McLeod	16,390,000	330,000	0	237,494	3,471,000	1,701,500	652,803	22,782,797	0
Boise Cascade Corp., International Falls, Koochiching	0	0	710,000	0	9,060,100	0	610,430	10,380,530	0
Cenex Harvest States Oilseed Processing & Refining, Mankato, Blue Earth	0	19,000	0	0	12,400	600	540,200	572,200	0
3M St. Paul East Side Site, Saint Paul, Ramsey	0	5,482	228,993	363	2,093,929	120,596	426,972	2,876,335	0
Larson-Glastron Boats Inc., Little Falls, Morrison	0	0	0	4,350	0	0	410,441	414,791	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Northern States Power Co., Becker, Sherburne	0	0	0	0	478,770	0	7,082,950	7,561,720	0
Boswell Energy Center, Cohasset, Itasca	0	0	0	0	118,000	0	1,711,000	1,829,000	0
A.S. King Generating Plant, Bayport, Washington	0	0	0	0	103,000	0	747,000	850,000	0
Riverside Generating Plant, Minneapolis, Hennepin	0	0	0	0	72,000	0	385,500	457,500	0
Rochester Public Utilities Silver Lake Plant, Rochester, Olmsted	0	0	0	0	0	0	257,360	257,360	0
Black Dog Generating Plant, Burnsville, Dakota	0	0	0	0	39,000	0	202,500	241,500	0
Austin Utilities Northeast Power Station, Austin, Mower	0	0	0	0	0	0	153,770	153,770	0
Laskin Energy Center, Hoyt Lakes, St Louis	0	0	0	0	0	0	140,000	140,000	0
Otter Tail Power Co. Hoot Lake Plant, Fergus Falls, Otter Tail	0	0	0	0	47,000	0	136,000	183,000	0
High Bridge Generating Plant, Saint Paul, Ramsey	0	0	0	0	0	0	120,000	120,000	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## MISSISSIPPI

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	61,005,515	13,343,566	74,349,081
Air Emissions	32,773,174	11,967,433	44,740,607
Surface Water Discharges	14,627,488	3,375	14,630,863
Underground Injection Class I Wells	8,326,762	0	8,326,762
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	4,079	0	4,079
Other On-site Land Releases	5,274,012	1,372,758	6,646,770
Off-site Releases (Transfers Off-site to Disposal)*	1,446,761	16	1,446,777
<b>Total On- and Off-site Releases</b>	<b>62,452,276</b>	<b>13,343,582</b>	<b>75,795,858</b>
Recycled On-site	130,199,405	0	130,199,405
Recycled Off-site	19,903,207	429,524	20,332,731
Energy Recovery On-site	35,410,943	0	35,410,943
Energy Recovery Off-site	7,492,881	22,500	7,515,381
Treated On-site	84,770,737	0	84,770,737
Treated Off-site**	5,817,860	68,692	5,886,552
Quantity Released On- and Off-site***	62,205,644	13,343,365	75,549,009
<b>Total Production-related Waste Managed</b>	<b>345,800,677</b>	<b>13,864,081</b>	<b>359,664,758</b>
<b>Total Non-production-related Waste Managed</b>	<b>154,002</b>	<b>4</b>	<b>154,006</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	19,487,799	95,538	19,583,337
Energy Recovery	6,718,374	22,297	6,740,671
Treatment	2,020,792	68,696	2,089,488
Publicly Owned Treatment Works (POTWs)	3,797,770	8	3,797,778
Metals and Metal Compounds*	8,910	0	8,910
Non-metal TRI Chemicals**	3,788,860	8	3,788,868
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	1,465,839	16	1,465,855
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>33,490,574</b>	<b>186,555</b>	<b>33,677,129</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

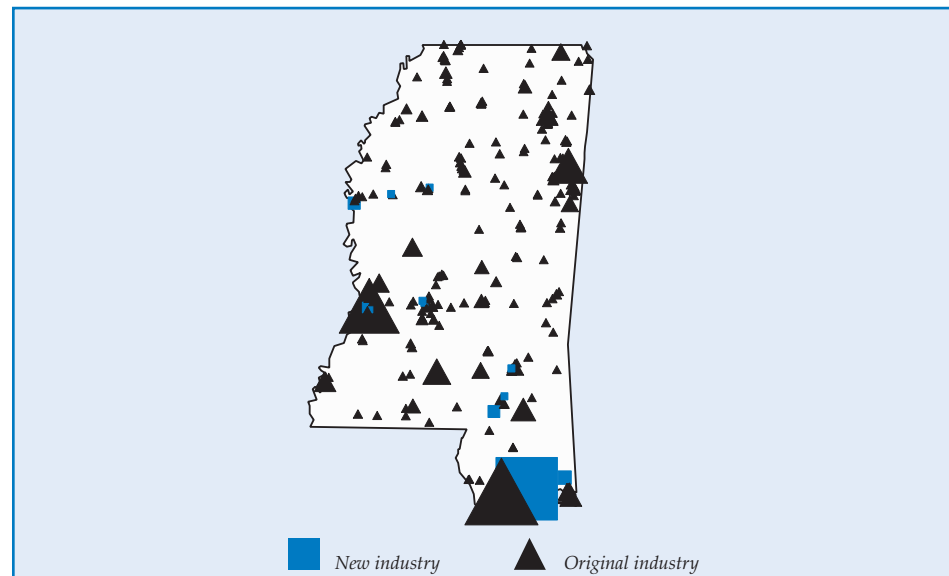
John David Burns  
(601) 961-5005  
Fax: (601) 961-5660  
E-mail: john\_burns@deq.state.ms.us

#### EPA Regional Contact:

Ezequiel Velez  
(404) 562-9191  
Fax: (404) 562-9163  
E-mail: velez.ezequiel@epa.gov

#### To obtain TRI data use

assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Mississippi. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	2,768,619
Square Miles	46,914
Total Facilities	325
Total Forms	1,176
Form As	197

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	13	34	25
Pounds	62,452,276	13,343,582	75,795,858
<b>National Rank for Total On-site Releases**</b>			
Rank	11	31	23
Pounds	61,005,515	13,343,566	74,349,081
<b>National Rank for Total Releases within State***</b>			
Rank	13	34	25
Pounds	62,431,118	13,381,802	75,812,920
<b>National Rank for Production-related Waste Managed</b>			
Rank	20	39	25
Pounds	345,800,677	13,864,081	359,664,758

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

# MISSISSIPPI

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Nitrate compounds	14,193	13,902,171	0	250	49,890	13,966,504	0	48,890	1,000
--	Manganese compounds	27,639	169,966	7,000,000	4,612,132	67,925	11,877,662	1,198	55,021	12,904
67-56-1	Methanol	8,408,596	58,852	8,259	3,236	10,783	8,489,726	0	6,583	4,200
7664-41-7	Ammonia	4,235,429	286,738	0	110,448	22,060	4,654,675	0	0	22,060
75-09-2	Dichloromethane	3,656,092	0	0	0	0	3,656,092	0	0	0
108-88-3	Toluene	2,692,990	2,818	640	2,704	10,275	2,709,427	147	8,775	1,500
110-54-3	n-Hexane	1,886,883	23	0	0	327	1,887,233	0	0	327
1330-20-7	Xylene (mixed isomers)	1,777,275	4,900	0	1,650	0	1,783,825	403	0	0
463-58-1	Carbonyl sulfide	1,718,170	0	0	0	0	1,718,170	0	0	0
--	Chromium compounds	2,215	2,680	790,000	50,151	94,165	939,211	8,818	63,320	30,845

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	9,259,084	0	0	0	0	9,259,084	0	0	0
7664-93-9	Sulfuric acid	2,140,915	0	0	0	0	2,140,915	0	0	0
--	Barium compounds	2,451	1,499	0	694,776	0	698,726	250	0	0
7664-39-3	Hydrogen fluoride	549,580	0	0	0	0	549,580	0	0	0
--	Manganese compounds	1,373	259	0	309,347	0	310,979	250	0	0
--	Zinc compounds	2,104	166	0	95,838	0	98,108	250	0	0
--	Nickel compounds	637	272	0	62,055	0	62,964	5	0	0
--	Copper compounds	423	200	0	57,502	0	58,125	5	0	0
--	Chromium compounds	555	155	0	55,958	0	56,668	3,235	0	0
--	Lead compounds	411	35	0	39,450	16	39,912	27,635	0	16

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

# MISSISSIPPI

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Du Pont Delisle Plant, Pass Christian, Harrison	1,777,936	827	8,235,100	0	0	31,989	10,045,852	97	0
Vicksburg Chemical Co., Vicksburg, Warren	98,278	7,221,808	0	0	0	0	7,320,086	0	0
Kerr-Mcgee Chemical L.L.C. Electrolytic Plant, Hamilton, Monroe	172,048	17,605	0	0	0	4,045,000	4,234,653	0	38,000
Georgia-Pacific Corp., Monticello, Lawrence	2,401,085	119,993	0	0	0	216,308	2,737,386	0	0
Leaf River Forest Prods., New Augusta, Perry	1,585,622	719,090	0	0	0	0	2,304,712	20,206	0
Chevron Prods. Co., Pascagoula Refy., Pascagoula, Jackson	1,737,521	138,369	0	0	0	0	1,875,890	48,178	1,425
Carpenter Co. Tupelo Div., Verona, Lee	1,857,758	0	0	0	0	0	1,857,758	0	0
International Paper - Natchez Mill, Natchez, Adams	1,144,648	63,425	0	0	0	638,125	1,846,198	8,535	21,388
International Paper - Vicksburg Mill, Redwood, Warren	1,517,032	1,020	0	0	0	115,559	1,633,611	0	0
Misschem Nitrogen L.L.C., Yazoo City, Yazoo	770,281	819,805	0	0	0	0	1,590,086	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Mississippi Power Co. - Plant Watson, Gulfport, Harrison	9,054,431	3,233	0	0	0	738,373	9,796,037	0	16
Mississippi Power Co. - Plant Daniel, Escatawpa, Jackson	710,406	0	0	0	0	401,872	1,112,278	0	0
Entergy Gerald Andrus Plant, Greenville, Washington	926,708	0	0	0	0	0	926,708	0	0
R. D. Morrow Sr. Generating Plant, Purvis, Lamar	636,538	137	0	0	0	232,513	869,188	0	0
Entergy Baxter Wilson Generating Plant, Vicksburg, Warren	629,857	0	0	0	0	0	629,857	0	0
Scott Petroleum Corp., Greenwood, Leflore	5,570	0	0	0	0	0	5,570	0	0
Baker Petrolite Corp., Laurel, Jones	2,020	5	0	0	0	0	2,025	0	0
Mobil Oil Hattisburg Terminal, Petal, Forrest	960	0	0	0	0	0	960	0	0
Gresham Petroleum Co., Indianola, Sunflower	560	0	0	0	0	0	560	0	0
Ashland Distribution Co., Jackson, Hinds	380	0	0	0	0	0	380	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

# MISSISSIPPI

## Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Du Pont Delisle Plant, Pass Christian, Harrison	0	0	0	0	7,700,000	21,000	10,045,949	17,766,949	0
Vicksburg Chemical Co., Vicksburg, Warren	513,862	0	0	0	6,683,422	0	7,319,027	14,516,311	0
Kerr-Mcgee Chemical L.L.C. Electrolytic Plant, Hamilton, Monroe	276,000	38,000	0	0	220,000	0	4,597,300	5,131,300	0
Georgia-Pacific Corp., Monticello, Lawrence	0	0	0	0	6,781,635	0	2,737,342	9,518,977	0
Leaf River Forest Prods., New Augusta, Perry	0	0	0	0	15,868,739	0	2,325,676	18,194,415	0
Chevron Prods. Co., Pascagoula Refy., Pascagoula, Jackson	12,000	756,400	0	1,870	6,574,050	13,058	1,896,335	9,253,713	36,920
International Paper - Natchez Mill, Natchez, Adams	0	0	34,034	0	7,804,204	0	1,876,754	9,714,992	0
Carpenter Co. Tupelo Div., Verona, Lee	0	0	0	0	0	0	1,857,758	1,857,758	0
International Paper - Vicksburg Mill, Redwood, Warren	0	0	26,500	0	2,792,332	0	1,636,496	4,455,328	0
Misschem Nitrogen L.L.C., Yazoo City, Yazoo	10,844,997	0	0	0	0	0	1,608,539	12,453,536	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

## Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Mississippi Power Co. - Plant Watson, Gulfport, Harrison	0	0	0	0	0	0	9,796,050	9,796,050	0
Mississippi Power Co. - Plant Daniel, Escatawpa, Jackson	0	0	0	0	0	0	1,112,278	1,112,278	0
Entergy Gerald Andrus Plant, Greenville, Washington	0	0	0	0	0	0	926,708	926,708	2
R. D. Morrow Sr. Generating Plant, Purvis, Lamar	0	333,986	0	0	0	0	869,051	1,203,037	0
Entergy Baxter Wilson Generating Plant, Vicksburg, Warren	0	0	0	0	0	0	629,857	629,857	2
Scott Petroleum Corp., Greenwood, Leflore	0	0	0	0	0	0	5,600	5,600	0
Baker Petrolite Corp., Laurel, Jones	0	0	0	1,530	0	0	1,925	3,455	0
Mobil Oil Hattisburg Terminal, Petal, Forrest	0	0	0	0	0	0	960	960	0
Gresham Petroleum Co., Indianola, Sunflower	0	0	0	0	0	0	560	560	0
Ashland Distribution Co., Jackson, Hinds	0	0	0	20,970	0	68,691	373	90,034	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## MISSOURI

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	52,114,992	72,959,934	125,074,926
Air Emissions	29,195,939	12,752,549	41,948,488
Surface Water Discharges	3,343,958	154,369	3,498,327
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	69,865	0	69,865
Other On-site Land Releases	19,505,230	60,053,016	79,558,246
Off-site Releases (Transfers Off-site to Disposal)*	4,665,440	411	4,665,851
<b>Total On- and Off-site Releases</b>	<b>56,780,432</b>	<b>72,960,345</b>	<b>129,740,777</b>
Recycled On-site	224,972,881	530,260	225,503,141
Recycled Off-site	56,383,686	1,296,378	57,680,064
Energy Recovery On-site	130,098,666	0	130,098,666
Energy Recovery Off-site	10,354,592	353,406	10,707,998
Treated On-site	51,089,782	5,694,291	56,784,073
Treated Off-site**	13,228,227	111,261	13,339,488
Quantity Released On- and Off-site***	59,038,761	72,564,072	131,602,833
<b>Total Production-related Waste Managed</b>	<b>545,166,595</b>	<b>80,549,668</b>	<b>625,716,263</b>
<b>Total Non-production-related Waste Managed</b>	<b>59,122</b>	<b>2,609</b>	<b>61,731</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	55,713,534	551,259	56,264,793
Energy Recovery	10,128,050	366,301	10,494,351
Treatment	8,704,866	97,482	8,802,348
Publicly Owned Treatment Works (POTWs)	7,232,064	551	7,232,615
Metals and Metal Compounds*	139,194	5	139,199
Non-metal TRI Chemicals**	7,092,870	546	7,093,416
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	4,598,664	406	4,599,070
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>86,377,178</b>	<b>1,015,999</b>	<b>87,393,177</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

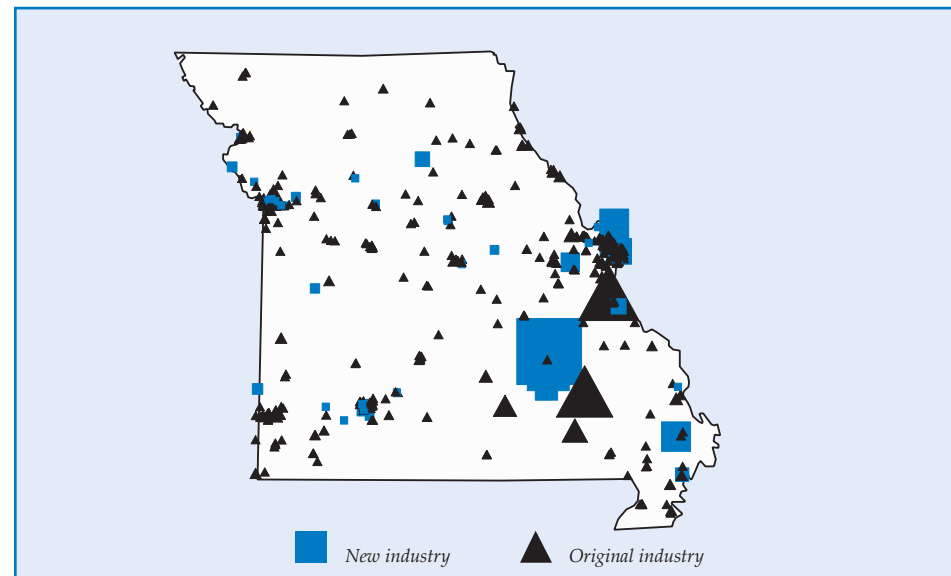
Gene Nickle  
(573) 526-6627  
Fax: (573) 526-5808  
E-mail: nrrnicke@mail.dnr.state.mo.us

#### EPA Regional Contact:

Stephen Wurtz  
(913) 551-7315  
Fax: (913) 551-7065

#### To obtain TRI data use

assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Missouri. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	5,468,338
Square Miles	68,898
Total Facilities	583
Total Forms	2,102
Form As	390

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	17	12	17
Pounds	56,780,432	72,960,345	129,740,777
<b>National Rank for Total On-site Releases**</b>			
Rank	14	11	17
Pounds	52,114,992	72,959,934	125,074,926
<b>National Rank for Total Releases within State***</b>			
Rank	14	11	17
Pounds	61,976,770	74,251,134	136,227,904
<b>National Rank for Production-related Waste Managed</b>			
Rank	14	20	17
Pounds	545,166,595	80,549,668	625,716,263

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

# MISSOURI

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Zinc compounds	103,357	660	0	14,375,440	466,985	14,946,442	276,306	289,466	177,519
67-56-1	Methanol	8,255,498	9,395	0	5	156,007	8,420,905	0	155,554	484
--	Lead compounds	352,668	571	0	3,842,609	1,262,185	5,458,033	5,482,286	1,241,435	20,750
1330-20-7	Xylene (mixed isomers)	3,565,795	5	0	0	47,422	3,613,222	0	15,825	31,597
--	Nitrate compounds	270	2,780,294	0	1,588	53,290	2,835,442	0	3,200	50,090
--	Glycol ethers	1,831,930	5	0	4,400	62,053	1,898,388	5	41,090	20,963
108-88-3	Toluene	1,821,814	22	0	5	1,607	1,823,448	0	801	806
7664-41-7	Ammonia	1,029,546	545,636	0	65,161	94,401	1,734,744	0	18,300	76,101
110-54-3	n-Hexane	1,283,312	0	0	0	5	1,283,317	0	5	0
100-42-5	Styrene	1,185,329	0	0	0	24,148	1,209,477	0	24,148	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

One facility in Kentucky incorrectly reported 5,411,508 pounds of lead compounds as a transfer off-site to disposal to Missouri. This amount should have been reported as being sent off-site to recycling and, therefore, not included in the amount Transferred into State.

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Lead compounds	152,610	7,174	0	24,500,295	0	24,660,079	586	0	0
--	Zinc compounds	207,078	24,524	0	20,940,797	115	21,172,514	2,009	15	100
7647-01-0	Hydrochloric acid	8,772,734	0	0	0	0	8,772,734	0	0	0
--	Barium compounds	145,027	105,107	0	7,605,054	5	7,855,193	156	5	0
--	Copper compounds	11,073	2,668	0	5,919,417	10	5,933,168	310	10	0
7664-39-3	Hydrogen fluoride	1,878,183	0	0	0	0	1,878,183	80	0	0
7664-93-9	Sulfuric acid	1,427,471	0	0	0	0	1,427,471	0	0	0
7440-39-3	Barium	11,152	0	0	298,650	0	309,802	543,309	0	0
--	Manganese compounds	7,958	6,110	0	241,113	10	255,191	76	10	0
--	Cobalt compounds	556	0	0	181,854	0	182,410	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

# MISSOURI

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Doe Run Co. Herculaneum Smelter, Herculaneum, Jefferson	331,549	179	0	0	0	9,671,956	10,003,684	997	563
Doe Run Co. Glover Smelter, Glover, Iron	48,306	17	0	0	0	9,171,198	9,219,521	0	572
Royal Oak Ent. Inc. - Ellsinore Mo., Ellsinore, Carter	3,217,392	0	0	0	0	0	3,217,392	0	0
Craig Ind. (Leased To Royal Oak Ents.), Summersville, Shannon	2,770,848	0	0	0	0	0	2,770,848	0	0
Ford Motor Co. Kansas City Assembly Plant, Claycomo, Clay	1,953,894	0	0	0	0	0	1,953,894	34,170	26,465
Ford Motor Co. St. Louis Assembly, Hazelwood, St Louis	1,548,108	0	0	0	0	0	1,548,108	2,223	22,621
Dow Chemical Co. Riverside Site, Pevely, Jefferson	1,545,102	0	0	0	0	0	1,545,102	0	0
ICI Explosives USA Inc., Joplin, Jasper	384,860	847,200	0	0	0	0	1,232,060	0	0
GMC Wentzville Assembly, Wentzville, St Charles	1,125,353	0	0	0	0	0	1,125,353	1,320	31,900
Royal Oak Enterprises Inc., Licking, Texas	805,392	0	0	0	0	0	805,392	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Viburnum Mines/Mill, Viburnum, Iron	74,331	9,978	0	0	0	14,031,444	14,115,753	0	0
Brushy Creek Mine/Mill, Bunker, Reynolds	30,822	4,264	0	0	0	8,487,306	8,522,392	0	0
Fletcher Mine/Mill, Bunker, Reynolds	24,750	1,750	0	0	0	7,238,140	7,264,640	0	0
Buick Mine/Mill, Boss, Iron	37,209	6,162	0	0	0	6,686,327	6,729,698	0	0
Westfork Mine/Mill, Bunker, Reynolds	3,376	1,250	0	0	0	5,353,086	5,357,712	0	0
Sikeston Power Station, Sikeston, Scott	110,137	0	0	0	0	5,218,401	5,328,538	0	0
Ameron Corp. Sioux Power Station, West Alton, St Charles	4,453,535	9,330	0	0	0	863,000	5,325,865	0	0
Ameron Corp.Meramec Power Station, Saint Louis, Saint Louis City	3,808,313	11,490	0	0	0	595,000	4,414,803	0	0
Sweetwater Mine/Mill, Ellington, Reynolds	15,151	1,000	0	0	0	3,691,453	3,707,604	0	0
Ameron Corp.Labadie Power Station, Labadie, Franklin	530,250	39,520	0	0	0	2,166,000	2,735,770	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.





# 1999 Toxics Release Inventory

## MISSOURI

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Doe Run Co. Herculaneum Smelter, Herculaneum, Jefferson	23,005,648	0	0	0	0	0	10,015,781	33,021,429	10,562
Doe Run Co. Glover Smelter, Glover, Iron	62,518,062	5,085,790	0	0	4,493	572	9,219,880	76,828,797	0
Royal Oak Ent. Inc. - Ellsinore Mo., Ellsinore, Carter	0	0	0	0	0	0	3,217,392	3,217,392	0
Craig Ind. (Leased To Royal Oak Ents.), Summersville, Shannon	0	0	0	0	0	0	2,770,848	2,770,848	0
Ford Motor Co. Kansas City Assembly Plant, Claycomo, Clay	0	892,760	0	255,340	608,900	63,790	2,014,641	3,835,431	0
Ford Motor Co. St. Louis Assembly, Hazelwood, St Louis	0	689,100	0	0	110,280	41,150	1,561,163	2,401,693	0
Dow Chemical Co. Riverside Site, Pevely, Jefferson	0	0	0	6,800	0	0	1,545,102	1,551,902	0
Doe Run Co. Recycling Facility, Boss, Iron	4,899	0	0	0	0	0	1,428,520	1,433,419	0
GMC Wentzville Assembly, Wentzville, St Charles	0	521,800	0	46,550	596	19,007	1,346,560	1,934,513	3
Memc Electronic Materials Inc. St. Peters Plant, O Fallon, St Charles	0	0	0	0	1,830,000	18,000	1,242,611	3,090,611	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Viburnum Mines/Mill, Viburnum, Iron	0	0	0	0	0	0	14,115,373	14,115,373	0
Brushy Creek Mine/Mill, Bunker, Reynolds	0	0	0	0	0	0	8,522,226	8,522,226	0
Fletcher Mine/Mill, Bunker, Reynolds	0	0	0	0	0	0	7,263,825	7,263,825	0
Buick Mine/Mill, Boss, Iron	0	0	0	0	0	0	6,523,598	6,523,598	0
Westfork Mine/Mill, Bunker, Reynolds	0	0	0	0	0	0	5,357,209	5,357,209	0
Sikeston Power Station, Sikeston, Scott	0	0	0	0	0	0	5,328,537	5,328,537	0
Ameron Corp. Sioux Power Station, West Alton, St Charles	0	0	0	0	993,000	0	5,307,000	6,300,000	0
Ameron Corp. Meramec Power Station, Saint Louis, Saint Louis City	0	0	0	0	216,000	0	4,412,000	4,628,000	0
Sweetwater Mine/Mill, Ellington, Reynolds	0	0	0	0	0	0	3,707,313	3,707,313	0
Ameron Corp. Labadie Power Station, Labadie, Franklin	0	0	0	0	679,000	0	2,695,000	3,374,000	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## MONTANA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	48,545,330	78,582,271	127,127,601
Air Emissions	5,368,777	1,152,322	6,521,099
Surface Water Discharges	36,047	10	36,057
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	2,298	0	2,298
Other On-site Land Releases	43,138,208	77,429,939	120,568,147
Off-site Releases (Transfers Off-site to Disposal)*	114,245	376,802	491,047
<b>Total On- and Off-site Releases</b>	<b>48,659,575</b>	<b>78,959,073</b>	<b>127,618,648</b>
Recycled On-site	36,466,718	0	36,466,718
Recycled Off-site	180,530	33,753	214,283
Energy Recovery On-site	7,559,811	0	7,559,811
Energy Recovery Off-site	22,434	0	22,434
Treated On-site	7,916,220	2,893,460	10,809,680
Treated Off-site**	30,689	1,439	32,128
Quantity Released On- and Off-site***	49,842,158	78,950,223	128,792,381
<b>Total Production-related Waste Managed</b>	<b>102,018,560</b>	<b>81,878,875</b>	<b>183,897,435</b>
<b>Total Non-production-related Waste Managed</b>	<b>6,898</b>	<b>17</b>	<b>6,915</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	232,658	6,753	239,411
Energy Recovery	23,611	0	23,611
Treatment	23,412	1,689	25,101
Publicly Owned Treatment Works (POTWs)	11,285	0	11,285
Metals and Metal Compounds*	10	0	10
Non-metal TRI Chemicals**	11,275	0	11,275
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	1,368,210	376,802	1,745,012
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>1,659,176</b>	<b>385,244</b>	<b>2,044,420</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\*Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

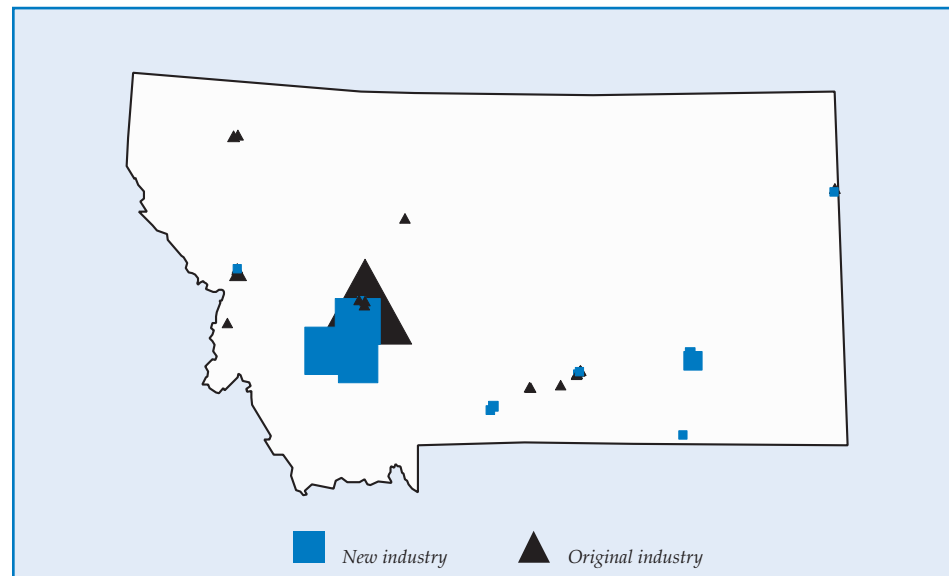
Tom Ellerhoff  
(406) 444-5263  
Fax: (406) 444-4386  
E-mail: tellerhoff@state.mt.us

#### EPA Regional Contact:

Joyel Dhieux  
(303) 312-6447  
Fax: (303) 312-6044  
E-mail: dhieux.joyel@epa.gov

#### To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Montana. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	882,779
Square Miles	145,556
Total Facilities	42
Total Forms	253
Form As	31

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	19	9	18
Pounds	48,659,575	78,959,073	127,618,648
<b>National Rank for Total On-site Releases**</b>			
Rank	17	9	16
Pounds	48,545,330	78,582,271	127,127,601
<b>National Rank for Total Releases within State***</b>			
Rank	20	9	18
Pounds	48,552,624	78,959,071	127,511,695
<b>National Rank for Production-related Waste Managed</b>			
Rank	34	19	34
Pounds	102,018,560	81,878,875	183,897,435

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## MONTANA

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Zinc compounds	10,562	43	0	35,577,360	345,316	35,933,281	0	5	345,311
--	Lead compounds	16,454	1	0	2,554,272	580,236	3,150,963	0	0	580,236
67-56-1	Methanol	3,088,962	16,000	0	270	0	3,105,232	0	0	0
--	Manganese compounds	786	3	0	2,976,183	10,839	2,987,811	0	0	10,839
--	Copper compounds	8,519	7	0	1,444,304	15,697	1,468,527	0	5	15,692
7664-41-7	Ammonia	781,138	13,430	0	14,105	436	809,109	0	0	436
50-00-0	Formaldehyde	465,261	2,800	0	0	0	468,061	0	0	0
--	Cadmium compounds	1,241	1	0	11,403	359,346	371,991	0	0	359,346
--	Arsenic compounds	2,788	63	0	281,882	34,971	319,704	0	0	34,971
7664-39-3	Hydrogen fluoride	228,730	0	0	0	0	228,730	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Zinc compounds	4,904	0	0	21,405,495	3,900	21,414,299	0	3,900	0
--	Copper compounds	2,687	0	0	15,177,982	3,900	15,184,569	0	3,900	0
7440-50-8	Copper	1,213	0	0	11,103,779	0	11,104,992	0	0	0
--	Lead compounds	1,260	0	0	10,749,000	1,601	10,751,861	0	1,600	1
7440-47-3	Chromium	581	0	0	7,461,120	0	7,461,701	0	0	0
--	Barium compounds	109,987	5	0	3,995,701	145,600	4,251,293	0	145,600	0
7440-02-0	Nickel	810	0	0	2,280,350	0	2,281,160	0	0	0
--	Manganese compounds	10,898	5	0	1,734,026	67,700	1,812,629	0	67,700	0
--	Arsenic compounds	500	0	0	1,530,000	1,250	1,531,750	0	1,250	0
7647-01-0	Hydrochloric acid	579,916	0	0	0	0	579,916	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

# MONTANA

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
ASARCO Inc., East Helena, Lewis and Clark	50,525	1,660	0	0	0	43,058,183	43,110,368	0	1,350,974
Stone Container Corp., Missoula, Missoula	3,298,705	24,400	0	0	0	285	3,323,390	0	0
Plum Creek MDF Inc., Columbia Falls, Flathead	741,550	0	0	0	0	0	741,550	0	0
Columbia Falls Aluminum Co. L.L.C., Columbia Falls, Flathead	300,197	0	0	0	0	81	300,278	0	0
Holly Sugar Corp., Sidney, Richland	239,000	0	0	0	0	10,000	249,000	0	0
Louisiana-Pacific Corp. Missoula Particleboard, Missoula, Missoula	166,000	0	0	0	0	0	166,000	0	0
Conoco Inc. Billings Refy., Billings, Yellowstone	129,508	616	0	0	0	0	130,124	0	0
Western Sugar Co.130130, Billings, Yellowstone	64,000	3,400	0	0	0	42,100	109,500	0	0
ExxonMobil Billings Refy., Billings, Yellowstone	100,867	5,686	0	0	0	9	106,562	44	4,013
Montana Refining Co., Great Falls, Cascade	75,755	0	0	0	0	0	75,755	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Montana Resources, Butte, Silver Bow	1,000	0	0	0	0	25,082,000	25,083,000	0	0
Montana Tunnels Mining Inc., Jefferson City, Jefferson	28,014	0	0	0	0	24,082,370	24,110,384	0	0
Golden Sunlight Mines Inc., Whitehall, Jefferson	111,632	0	0	0	0	20,376,450	20,488,082	0	0
PP&L Montana Colstrip Steam Electric Station, Colstrip, Rosebud	285,185	0	0	0	0	6,293,900	6,579,085	156,500	2
SMC Nye Mine Site, Nye, Stillwater	1,101	0	0	0	0	963,225	964,326	0	0
Colstrip Energy L.P. Rosebud Power Plant, Colstrip, Rosebud	613,223	0	0	0	0	344,454	957,677	0	0
SMC East Boulder Project, Mc Leod, Sweet Grass	0	0	0	0	0	249,523	249,523	0	0
J.E. Corette Steam Electric Station, Billings, Yellowstone	62,350	10	0	0	0	0	62,360	80,000	0
Lewis & Clark Station, Sidney, Richland	25,196	0	0	0	0	25,800	50,996	140,300	0
Conoco Helena Product Terminal, Helena, Lewis and Clark	13,109	0	0	0	0	0	13,109	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## MONTANA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
ASARCO Inc., East Helena, Lewis and Clark	28,916,883	0	0	0	0	0	44,454,865	73,371,748	6,467
Stone Container Corp., Missoula, Missoula	0	0	7,084,400	0	4,153,500	0	3,305,754	14,543,654	0
Plum Creek MDF Inc., Columbia Falls, Flathead	0	0	0	0	0	0	740,300	740,300	0
Columbia Falls Aluminum Co. L.L.C., Columbia Falls, Flathead	6,342,848	0	0	0	0	0	300,278	6,643,126	0
Holly Sugar Corp., Sidney, Richland	0	0	0	0	0	0	249,000	249,000	0
Louisiana-Pacific Corp. Missoula Particleboard, Missoula, Missoula	0	0	0	3,700	0	0	166,000	169,700	0
Conoco Inc. Billings Refy., Billings, Yellowstone	0	26,923	0	24	68,890	4	118,990	214,831	0
ExxonMobil Billings Refy., Billings, Yellowstone	0	12,000	250,000	0	2,298,877	209	110,812	2,671,898	6
Western Sugar Co.130130, Billings, Yellowstone	0	0	0	0	4,000	0	105,000	109,000	0
Montana Refining Co., Great Falls, Cascade	216,100	0	0	0	0	11,079	76,440	303,619	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Montana Resources, Butte, Silver Bow	0	0	0	0	0	0	25,066,200	25,066,200	0
Montana Tunnels Mining Inc., Jefferson City, Jefferson	0	27,000	0	0	0	0	24,110,370	24,137,370	7
Golden Sunlight Mines Inc., Whitehall, Jefferson	0	0	0	0	0	0	20,424,110	20,424,110	5
PP&L Montana Colstrip Steam Electric Station, Colstrip, Rosebud	0	0	0	0	2,500,000	0	6,831,112	9,331,112	0
Colstrip Energy L.P. Rosebud Power Plant, Colstrip, Rosebud	0	0	0	0	0	0	957,677	957,677	0
SMC Nye Mine Site, Nye, Stillwater	0	0	0	0	20,460	0	943,866	964,326	0
SMC East Boulder Project, Mc Leod, Sweet Grass	0	0	0	0	0	0	249,523	249,523	0
Lewis & Clark Station, Sidney, Richland	0	0	0	0	238,000	0	191,040	429,040	4
J.E. Corette Steam Electric Station, Billings, Yellowstone	0	0	0	0	135,000	0	142,000	277,000	0
Decker Coal Co., Decker, Big Horn	0	6,753	0	0	0	0	12,217	18,970	1

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## NEBRASKA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	17,062,047	7,839,729	24,901,776
Air Emissions	5,037,464	3,487,263	8,524,727
Surface Water Discharges	11,294,646	52,515	11,347,161
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	5	0	5
Other On-site Land Releases	729,932	4,299,951	5,029,883
Off-site Releases (Transfers Off-site to Disposal)*	1,950,584	415,093	2,365,677
<b>Total On- and Off-site Releases</b>	<b>19,012,631</b>	<b>8,254,822</b>	<b>27,267,453</b>
Recycled On-site	1,884,598	257,380	2,141,978
Recycled Off-site	41,240,163	489,716	41,729,879
Energy Recovery On-site	311,185	0	311,185
Energy Recovery Off-site	365,777	15,048	380,825
Treated On-site	7,594,782	23,879,414	31,474,196
Treated Off-site**	1,166,097	46,658	1,212,755
Quantity Released On- and Off-site***	23,171,454	8,143,811	31,315,265
<b>Total Production-related Waste Managed</b>	<b>75,734,056</b>	<b>32,832,027</b>	<b>108,566,083</b>
<b>Total Non-production-related Waste Managed</b>	<b>226,883</b>	<b>0</b>	<b>226,883</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	41,201,448	100,011	41,301,459
Energy Recovery	358,347	15,002	373,349
Treatment	221,807	48,445	270,252
Publicly Owned Treatment Works (POTWs)	884,383	0	884,383
Metals and Metal Compounds*	13,245	0	13,245
Non-metal TRI Chemicals**	871,138	0	871,138
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	6,205,465	415,643	6,621,108
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>48,871,450</b>	<b>579,101</b>	<b>49,450,551</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

Donnie Zach  
(402) 471-4251  
Fax: (402) 471-2909

E-mail: donnie.zach@ndeq.state.ne.us

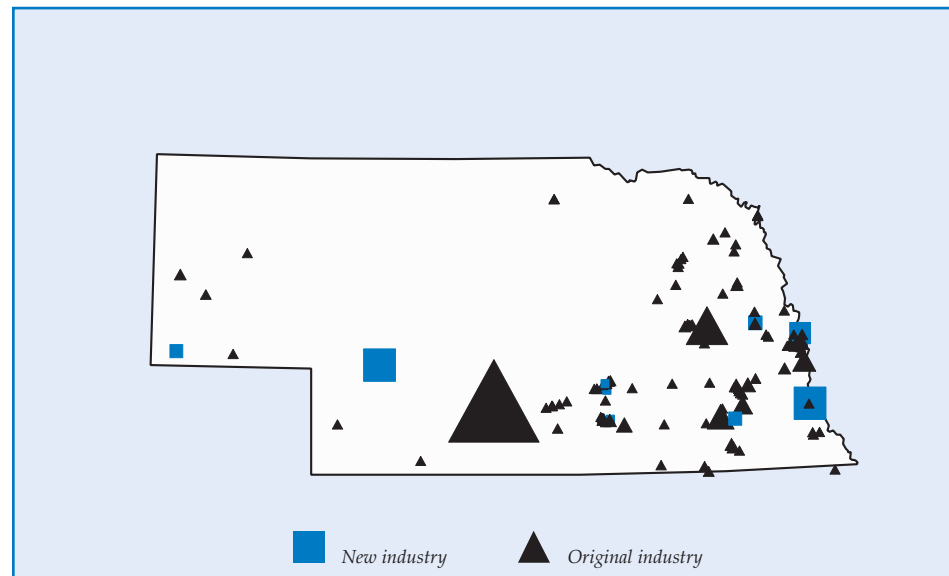
#### EPA Regional Contact:

Stephen Wurtz  
(913) 551-7315  
Fax: (913) 551-7065

E-mail: wurtz.stephen@epa.gov

#### To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531  
(202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Nebraska. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	1,666,028
Square Miles	76,878
Total Facilities	174
Total Forms	597
Form As	111

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	35	41	38
Pounds	19,012,631	8,254,822	27,267,453
<b>National Rank for Total On-site Releases**</b>			
Rank	33	41	37
Pounds	17,062,047	7,839,729	24,901,776
<b>National Rank for Total Releases within State***</b>			
Rank	34	41	37
Pounds	18,416,120	8,258,795	26,674,915
<b>National Rank for Production-related Waste Managed</b>			
Rank	39	31	42
Pounds	75,734,056	32,832,027	108,566,083

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## NEBRASKA

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Nitrate compounds	20	11,207,081	0	93,822	95,088	11,396,011	0	95,088	0
--	Zinc compounds	102,015	4,108	0	0	4,208,088	4,314,211	36,306	313,867	3,894,221
7664-41-7	Ammonia	847,068	73,852	0	541,795	215,378	1,678,093	0	215,378	0
110-54-3	n-Hexane	799,424	0	0	0	0	799,424	0	0	0
--	Manganese compounds	10,376	522	0	9,100	730,459	750,457	0	2,856	727,603
1330-20-7	Xylene (mixed isomers)	624,295	1	0	0	414	624,710	0	402	12
108-88-3	Toluene	539,042	5	0	0	419	539,466	0	414	5
--	Lead compounds	3,238	308	0	0	384,543	388,089	263	6,852	377,691
95-63-6	1,2,4-Trimethylbenzene	364,253	5	0	0	2,000	366,258	0	0	2,000
1717-00-6	1,1-Dichloro-1-fluoro-ethane (HCFC-141b)	298,649	0	0	0	0	298,649	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	2,050,063	0	0	0	0	2,050,063	0	0	0
--	Barium compounds	153,051	250	0	1,526,423	275,850	1,955,574	0	275,350	500
7440-39-3	Barium	185	0	0	1,936,000	0	1,936,185	0	0	0
7664-39-3	Hydrogen fluoride	1,143,935	0	0	0	0	1,143,935	0	0	0
--	Copper compounds	5,260	5	0	318,851	43,500	367,616	5	43,250	250
--	Zinc compounds	2,160	250	0	121,592	69,250	193,252	1,602	69,000	250
--	Manganese compounds	11,594	0	0	105,005	0	116,599	1,675	0	0
7439-96-5	Manganese	1,230	0	0	78,000	0	79,230	0	0	0
1313-27-5	Molybdenum trioxide	5	0	0	76,480	0	76,485	0	0	0
7782-50-5	Chlorine	13,520	52,000	0	0	0	65,520	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## NEBRASKA

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
IBP Inc., Lexington, Dawson	18,840	6,500,250	0	0	0	8,505	6,527,595	161,770	0
Excel Corp., Schuyler, Colfax	10,510	2,541,897	0	0	0	0	2,552,407	2,537	0
Farmland Foods Inc., Crete, Saline	58,335	1,306,432	0	0	0	0	1,364,767	0	0
PCS Nitrogen Fertilizer L.P., Bellevue, Sarpy	236,505	656,100	0	0	0	159,122	1,051,727	22,285	5
Goodyear Tire & Rubber Co., Lincoln, Lancaster	795,231	156	0	0	0	0	795,387	76,473	484
U.S.D.A. Agricultural Research Service Rlhusmarc, Clay Center, Clay	0	0	0	0	0	462,113	462,113	0	0
ADM, Lincoln, Lancaster	430,002	10	0	0	0	0	430,012	1,500	0
Farmland Industries,Inc., Beatrice, Gage	203,310	39,060	0	0	0	3,100	245,470	0	0
New Holland N.A. Inc., Grand Island, Hall	212,000	0	0	0	0	0	212,000	0	0
Agrium U.S Inc. Homestead Nitrogen Ops., Beatrice, Gage	145,388	63,841	0	0	0	0	209,229	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Omaha Public Power District Nebraska City Station, Nebraska City, Otoe	864,490	5	0	0	0	1,566,000	2,430,495	0	0
Nebraska Public Power District. Gerald Gentleman Station, Sutherland, Lincoln	1,005,120	52,000	0	0	0	1,373,000	2,430,120	0	0
Omaha Public Power District North Omaha Station, Omaha, Douglas	743,740	5	0	0	0	568,000	1,311,745	0	0
City of Fremont Department of Utilities Lon D. Wright Power, Fremont, Dodge	563,560	505	0	0	0	4,100	568,165	387,600	0
Nebraska Public Power District - Sheldon Station, Hallam, Lancaster	204,400	0	0	0	0	312,000	516,400	0	0
Clean Harbors Environmental Services Inc., Kimball, Kimball	18,640	0	0	0	0	476,841	495,481	0	28,043
Platte Generating Station, Grand Island, Hall	55,790	0	0	0	0	10	55,800	0	0
Whelan Energy Center, Hastings, Adams	31,520	0	0	0	0	0	31,520	0	0
Safety-Kleen Sys. (506501), Grand Island, Hall	3	0	0	0	0	0	3	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.





# 1999 Toxics Release Inventory

## NEBRASKA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
IBP Inc., Lexington, Dawson	0	46,000	0	0	277,000	1,500	6,686,155	7,010,655	0
Nucor Steel Nebraska, Norfolk, Madison	0	2,575,749	0	0	0	0	4,865,237	7,440,986	166,310
Excel Corp., Schuyler, Colfax	0	0	0	0	2,947,831	0	2,554,944	5,502,775	0
Farmland Foods Inc., Crete, Saline	0	0	0	0	436,719	21,469	1,364,318	1,822,506	90
Goodyear Tire & Rubber Co., Lincoln, Lancaster	24,343	0	0	82,080	0	3,734	872,344	982,501	0
PCS Nitrogen Fertilizer L.P., Bellevue, Sarpy	150,000	53,780	0	0	1,308,000	22,285	851,016	2,385,081	56,880
U.S.D.A. Agricultural Research Service Rhusmarc, Clay Center, Clay	0	0	0	0	0	0	462,113	462,113	0
ADM, Lincoln, Lancaster	0	80,000	0	0	0	1,680	430,002	511,682	0
Nebraska Energy L.L.C., Aurora, Hamilton	0	0	0	0	0	309,174	309,192	618,366	45
Behlen Mfg. Co., Columbus, Platte	0	260,700	0	24,700	0	0	290,090	575,490	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Omaha Public Power District Nebraska City Station, Nebraska City, Otoe	0	0	0	0	0	0	2,430,000	2,430,000	0
Nebraska Public Power District. Gerald Gentleman Station, Sutherland, Lincoln	122,380	0	0	0	0	0	2,389,000	2,511,380	0
Omaha Public Power District North Omaha Station, Omaha, Douglas	0	0	0	0	0	0	1,312,000	1,312,000	0
City of Fremont Department of Utilities Lon D. Wright Power, Fremont, Dodge	0	0	0	0	0	0	944,000	944,000	0
Nebraska Public Power District - Sheldon Station, Hallam, Lancaster	135,000	0	0	0	0	0	507,000	642,000	0
Clean Harbors Environmental Services Inc., Kimball, Kimball	0	0	0	15,048	23,879,414	46,658	487,133	24,428,253	0
Platte Generating Station, Grand Island, Hall	0	0	0	0	0	0	43,155	43,155	0
Whelan Energy Center, Hastings, Adams	0	389,705	0	0	0	0	31,520	421,225	0
Safety-Kleen Sys. (506501), Grand Island, Hall	0	100,011	0	0	0	0	3	100,014	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## NEVADA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	4,320,947	1,163,873,916	1,168,194,863
Air Emissions	915,984	2,481,513	3,397,497
Surface Water Discharges	0	136,431	136,431
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	2,797	2,797
On-site Land Releases to RCRA Subtitle C Landfills	0	2,054,100	2,054,100
Other On-site Land Releases	3,404,963	1,159,199,075	1,162,604,038
Off-site Releases (Transfers Off-site to Disposal)*	47,529	165,469	212,998
<b>Total On- and Off-site Releases</b>	<b>4,368,476</b>	<b>1,164,039,385</b>	<b>1,168,407,861</b>
Recycled On-site	65,595,518	5,522,684	71,118,202
Recycled Off-site	1,178,696	1,241,006	2,419,702
Energy Recovery On-site	0	0	0
Energy Recovery Off-site	21,160	0	21,160
Treated On-site	9,045,979	11,906,425	20,952,404
Treated Off-site**	61,950	826,316	888,266
Quantity Released On- and Off-site***	4,362,990	1,163,478,356	1,167,841,346
<b>Total Production-related Waste Managed</b>	<b>80,266,293</b>	<b>1,182,974,787</b>	<b>1,263,241,080</b>
<b>Total Non-production-related Waste Managed</b>	<b>27,096</b>	<b>27,355</b>	<b>54,451</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	1,178,741	1,152,964	2,331,705
Energy Recovery	19,740	0	19,740
Treatment	20,809	375,000	395,809
Publicly Owned Treatment Works (POTWs)	37,705	500	38,205
Metals and Metal Compounds*	34	0	34
Non-metal TRI Chemicals**	37,671	500	38,171
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	47,543	585,606	633,149
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>1,304,538</b>	<b>2,114,070</b>	<b>3,418,608</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

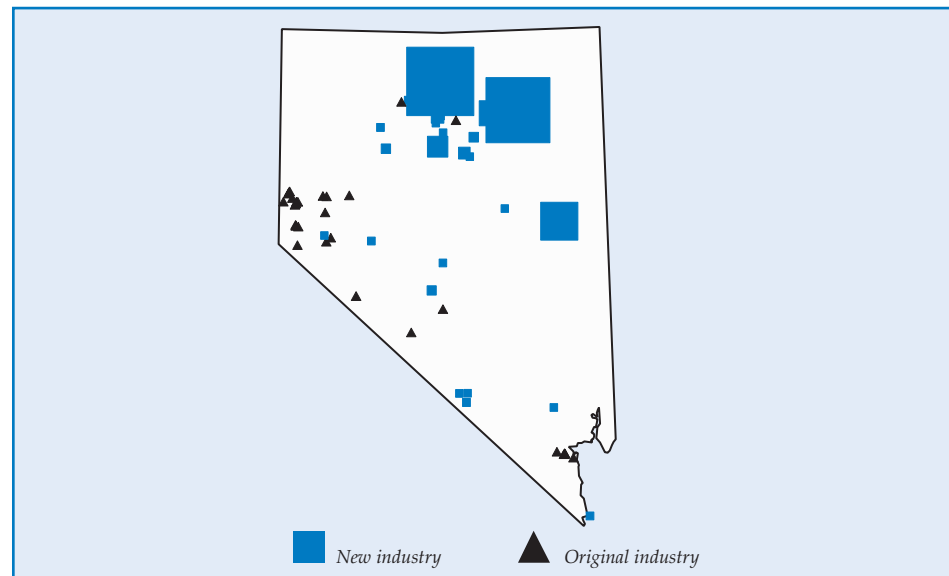
Alene Coulson  
(775) 687-4670, ext. 3006  
Fax: (775) 687-6396  
E-mail: acoulson@ndep.carson-city.nv.us

#### EPA Regional Contact:

Adam Browning  
(415) 744-1121  
Fax: (415) 744-1073  
E-mail: browning.adam@epa.gov

#### To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Nevada. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	1,809,253
Square Miles	109,806
Total Facilities	88
Total Forms	414
Form As	32

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	44	1	1
Pounds	4,368,476	1,164,039,385	1,168,407,861
<b>National Rank for Total On-site Releases**</b>			
Rank	43	1	1
Pounds	4,320,947	1,163,873,916	1,168,194,863
<b>National Rank for Total Releases within State***</b>			
Rank	44	1	1
Pounds	5,005,622	1,164,465,188	1,169,470,810
<b>National Rank for Production-related Waste Managed</b>			
Rank	38	1	4
Pounds	80,266,293	1,182,974,787	1,263,241,080

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## NEVADA

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Manganese compounds	9,451	0	0	2,401,480	0	2,410,931	28,705	0	0
--	Copper compounds	0	0	0	717,284	0	717,284	14,204	0	0
108-88-3	Toluene	496,719	0	0	0	750	497,469	5	0	750
--	Zinc compounds	505	0	0	283,899	13,112	297,516	83,335	13,072	88
7664-41-7	Ammonia	276,254	0	0	0	0	276,254	436	0	0
1717-00-6	1,1-Dichloro-1-fluoro-ethane (HCFC-141b)	43,803	0	0	0	2,386	46,189	0	2,386	0
1330-20-7	Xylene (mixed isomers)	25,863	0	0	0	0	25,863	5	0	0
7440-02-0	Nickel	6,912	0	0	0	10,515	17,427	22,058	10,515	0
--	Polycyclic aromatic compounds	0	0	0	0	14,000	14,000	0	14,000	0
75-09-2	Dichloromethane	7,160	0	0	0	0	7,160	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Arsenic compounds	46,915	5,013	34	492,784,915	22	492,836,899	0	5	17
--	Copper compounds	10,124	567	3	202,936,395	517	202,947,606	11,142	278,816	517
--	Zinc compounds	19,215	1,070	65	163,305,804	126,589	163,452,743	0	186,877	1,301
--	Manganese compounds	10,876	1,781	0	138,675,806	220	138,688,683	0	0	220
--	Lead compounds	4,787	68	1	36,019,438	4,115	36,028,409	0	250	3,865
7440-38-2	Arsenic	3,570	0	0	34,542,000	0	34,545,570	0	0	0
--	Nickel compounds	2,784	1,690	7	27,861,672	49	27,866,202	250	74,356	49
--	Antimony compounds	1,066	6,593	86	22,569,602	0	22,577,347	0	0	0
--	Chromium compounds	2,254	0	0	17,339,717	1,053	17,343,024	12,502	250	803
--	Cobalt compounds	392	0	1	6,407,931	10	6,408,334	0	0	10

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## NEVADA

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Kerr McGee Chemical L.L.C., Henderson, Clark	29,616	0	0	0	0	2,301,475	2,331,091	0	0
Hawthorne Army Depot New Bomb, Hawthorne, Mineral	1,166	0	0	0	0	1,001,183	1,002,349	0	0
R.R. Donnelley & Sons Co.130130, Reno, Washoe	469,546	0	0	0	0	0	469,546	22	900
Coastal Chem Inc., Battle Mountain, Lander	255,800	0	0	0	0	2,300	258,100	0	0
Nevada Refy. of Kennametal Inc., Fallon, Churchill	0	0	0	0	0	100,005	100,005	0	0
H.C. Inds. (NV) Inc., Fernley, Lyon	45,754	0	0	0	0	0	45,754	2,637	0
Quebecor Printing Nevada Inc., Fernley, Lyon	22,377	0	0	0	0	0	22,377	60	0
Marathon Equipment Co. Delaware, Yerington, Lyon	21,899	0	0	0	0	0	21,899	0	0
Foreland Refining- Tonopah Refy., Tonopah, Nye	13,456	0	0	0	0	0	13,456	0	0
Titanium Metals Corp., Henderson, Clark	12,037	0	0	0	0	0	12,037	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Newmont Gold Company,Twin Creeks Mine, Golconda, Humboldt	113,473	2,338	0	0	0	343,879,537	343,995,348	0	2
Barrick Goldstrike Mine, Elko, Elko	78,399	15,548	0	0	0	325,289,760	325,383,707	0	2,508
BHP Copper Robinson Ops., Ruth, White Pine	800	0	0	0	0	171,100,000	171,100,800	0	0
Newmont Mining Corporation- Carlin South Area, Carlin, Eureka	71,124	769	0	0	0	98,447,606	98,519,499	0	0
Echo Bay Minerals Co. - McCoy/Cove Mine, Battle Mountain, Lander	53,694	0	0	0	0	74,806,467	74,860,161	0	0
Getchell Gold Corp., Golconda, Humboldt	13,330	0	0	0	0	37,937,110	37,950,440	0	0
Newmont Gold Co. -Lone Tree Mine, Valmy, Humboldt	35,969	117,776	0	0	0	29,283,332	29,437,077	0	0
Cortez Gold Mines Mill #2, Beowawe, Lander	139,302	0	0	0	0	23,512,952	23,652,254	0	0
Newmont Mining Corp. - Carlin North Area, Carlin, Eureka	21,277	0	0	0	0	11,652,232	11,673,509	0	0
Coeur Rochester Inc., Lovelock, Pershing	18,321	0	0	0	0	10,638,362	10,656,683	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## NEVADA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Kerr McGee Chemical L.L.C., Henderson, Clark	0	0	0	0	0	0	2,321,644	2,321,644	0
Hawthorne Army Depot New Bomb, Hawthorne, Mineral	0	0	0	0	1,059,492	0	1,002,349	2,061,841	3
R.R. Donnelley & Sons Co.130130, Reno, Washoe	0	18,340	0	11,950	0	16	469,672	499,978	0
Coastal Chem Inc., Battle Mountain, Lander	0	0	0	0	0	0	256,000	256,000	20,300
Nevada Refy. of Kennametal Inc., Fallon, Churchill	0	0	0	0	0	0	100,000	100,000	0
H.C. Inds. (NV) Inc., Fernley, Lyon	0	0	0	0	400	0	48,391	48,791	0
Michelin N.A. Inc., Reno, Washoe	0	9,230	0	0	0	0	27,490	36,720	0
Viking Metallurgical, Verdi, Washoe	0	0	0	0	0	0	26,377	26,377	0
Quebecor Printing Nevada Inc., Fernley, Lyon	5,065,169	0	0	800	0	2,455	22,377	5,090,801	0
Marathon Equipment Co. Delaware, Yerington, Lyon	0	0	0	0	0	0	21,801	21,801	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Newmont Gold Company, Twin Creeks Mine, Golconda, Humboldt	593,680	166	0	0	1,670,182	0	343,995,350	346,259,378	0
Barrick Goldstrike Mine, Elko	2,036,570	668	0	0	1,081,320	0	325,386,218	328,504,776	1
BHP Copper Robinson Ops., Ruth, White Pine	0	0	0	0	73,000	0	170,100,000	170,173,000	1
Newmont Mining Corporation- Carlin South Area, Carlin, Eureka	2,197,874	99	0	0	2,481,157	0	98,519,499	103,198,629	0
Echo Bay Minerals Co. - McCoy/Cove Mine, Battle Mountain, Lander	0	0	0	0	2,788,000	0	74,860,367	77,648,367	14
Getchell Gold Corp., Golconda, Humboldt	490	8,597	0	0	874,000	0	38,584,500	39,467,587	0
Newmont Gold Co. -Lone Tree Mine, Valmy, Humboldt	345,099	0	0	0	626,388	0	29,437,061	30,408,548	0
Cortez Gold Mines Mill #2, Beowawe, Lander	0	19,395	0	0	180,000	0	23,652,453	23,851,848	4
Newmont Mining Corp. - Carlin North Area, Carlin, Eureka	78,173	0	0	0	270,185	0	11,673,509	12,021,867	0
Coeur Rochester Inc., Lovelock, Pershing	12	50,218	0	0	0	0	10,650,211	10,700,441	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## NEW HAMPSHIRE

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	2,653,843	2,733,463	5,387,306
Air Emissions	2,474,324	2,713,163	5,187,487
Surface Water Discharges	125,582	0	125,582
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	53,937	20,300	74,237
Off-site Releases (Transfers Off-site to Disposal)*	460,578	24,070	484,648
<b>Total On- and Off-site Releases</b>	<b>3,114,421</b>	<b>2,757,533</b>	<b>5,871,954</b>
Recycled On-site	17,095,576	0	17,095,576
Recycled Off-site	15,483,788	0	15,483,788
Energy Recovery On-site	1,446,912	0	1,446,912
Energy Recovery Off-site	2,664,256	0	2,664,256
Treated On-site	15,569,091	470	15,569,561
Treated Off-site**	1,018,177	16	1,018,193
Quantity Released On- and Off-site***	3,035,296	2,757,218	5,792,514
<b>Total Production-related Waste Managed</b>	<b>56,313,096</b>	<b>2,757,704</b>	<b>59,070,800</b>
<b>Total Non-production-related Waste Managed</b>	<b>21,206</b>	<b>0</b>	<b>21,206</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	15,527,874	0	15,527,874
Energy Recovery	2,704,092	0	2,704,092
Treatment	355,200	0	355,200
Publicly Owned Treatment Works (POTWs)	750,089	16	750,105
Metals and Metal Compounds*	4,247	0	4,247
Non-metal TRI Chemicals**	745,842	16	745,858
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	465,278	24,070	489,348
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>19,802,533</b>	<b>24,086</b>	<b>19,826,619</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

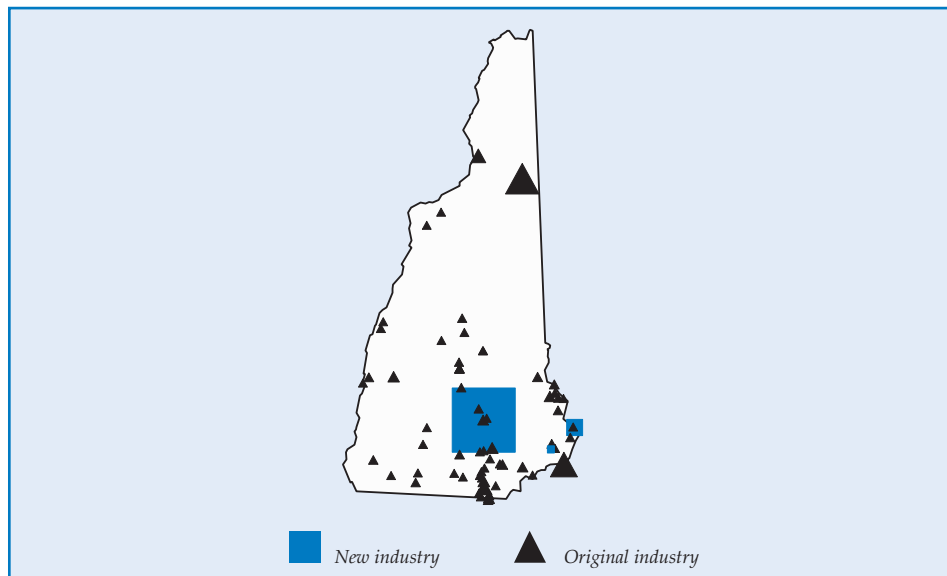
Leland Kimball  
(603) 271-2231  
Fax: (603) 225-7341  
E-mail: leek@nhoem.state.nh.us

#### EPA Regional Contact:

Dwight Peavey  
(617) 918-1829  
Fax: (617) 918-1810  
E-mail: peavey.dwight@epa.gov

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531

Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of New Hampshire. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	1,201,134
Square Miles	8,969
Total Facilities	109
Total Forms	320
Form As	47

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	46	46	48
Pounds	3,114,421	2,757,533	5,871,954
<b>National Rank for Total On-site Releases**</b>			
Rank	46	46	48
Pounds	2,653,843	2,733,463	5,387,306
<b>National Rank for Total Releases within State***</b>			
Rank	46	46	48
Pounds	3,060,511	2,746,028	5,806,539
<b>National Rank for Production-related Waste Managed</b>			
Rank	43	47	45
Pounds	56,313,096	2,757,704	59,070,800

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## NEW HAMPSHIRE

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
67-56-1	Methanol	617,290	6,352	0	3,260	36,402	663,304	0	0	36,402
1330-20-7	Xylene (mixed isomers)	383,062	5	0	0	0	383,067	0	0	0
7647-01-0	Hydrochloric acid	137,211	0	0	0	140,070	277,281	0	0	140,070
7664-41-7	Ammonia	201,546	20,938	0	7	17,494	239,985	51	147	17,347
108-88-3	Toluene	215,210	5	0	0	1,068	216,283	0	0	1,068
78-93-3	Methyl ethyl ketone	183,490	25	0	45	0	183,560	0	0	0
100-41-4	Ethylbenzene	132,891	5	0	0	0	132,896	0	0	0
7664-93-9	Sulfuric acid	127,026	0	0	0	0	127,026	0	0	0
--	Manganese compounds	1,500	77,850	0	14,035	2	93,387	6,105	0	2
--	Glycol ethers	54,339	0	0	0	16,664	71,003	0	0	16,664

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	1,854,000	0	0	0	0	1,854,000	0	0	0
7664-93-9	Sulfuric acid	635,000	0	0	0	0	635,000	0	0	0
7664-39-3	Hydrogen fluoride	192,200	0	0	0	0	192,200	0	0	0
7664-41-7	Ammonia	28,800	0	0	0	0	28,800	0	0	0
--	Barium compounds	1,243	0	0	8,000	12,780	22,023	0	380	12,400
--	Nickel compounds	807	0	0	2,200	11,290	14,297	3,583	8,600	2,690
--	Manganese compounds	275	0	0	4,000	0	4,275	0	0	0
--	Zinc compounds	250	0	0	3,500	0	3,750	0	0	0
--	Chromium compounds	170	0	0	2,600	0	2,770	0	0	0
67-56-1	Methanol	418	0	0	0	0	418	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## NEW HAMPSHIRE

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Pulp & Paper of America L.L.C. - Berlin Mill, Berlin, Coos	608,662	100,662	0	0	0	48,777	758,101	0	134
Venture Holdings Corp. DBA Bailey Mfg., Seabrook, Rockingham	558,609	30	0	0	0	0	558,639	0	0
Groveton Paper Board Inc., Groveton, Coos	183,933	4,547	0	0	0	0	188,480	0	24,703
Kalwall Corp. Panels & Accessories Div., Manchester, Hillsborough	94,946	0	0	0	0	0	94,946	0	0
Nashua Corp., Merrimack, Hillsborough	90,091	0	0	0	0	0	90,091	505	0
Sturm Ruger Co. Inc. Pine Tree Castings Div., Newport, Sullivan	80,355	0	0	0	0	0	80,355	510	141,070
Textile Tapes Corp., Gonic, Strafford	79,600	0	0	0	0	0	79,600	0	0
Kalwall Corp/Flat Sheet Div., Bow, Merrimack	61,403	0	0	0	0	0	61,403	0	0
Johnson & Johnston Assoc. Inc., Hampstead, Rockingham	56,987	0	0	0	0	0	56,987	0	0
Pulp & Paper of America L.L.C. - Cascade Mill, Gorham, Coos	55,275	0	0	0	0	0	55,275	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Merrimack Station, Bow, Merrimack	2,153,191	0	0	0	0	20,300	2,173,491	0	0
Public Service Co. of New Hampshire Schiller Station, Portsmouth, Rockingham	345,831	0	0	0	0	0	345,831	0	15,090
Newington Station, Newington, Rockingham	213,723	0	0	0	0	0	213,723	8,980	0
Chemtan Co. Inc., Exeter, Rockingham	418	0	0	0	0	0	418	0	0
Harcros Chemicals Inc., Nashua, Hillsborough	0	0	0	0	0	0	0	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.





# 1999 Toxics Release Inventory

## NEW HAMPSHIRE

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Pulp & Paper of America L.L.C. - Berlin Mill, Berlin, Coos	0	0	29,515	0	7,843,820	0	758,023	8,631,358	0
Venture Holdings Corp. DBA Bailey Mfg., Seabrook, Rockingham	223,012	0	0	35,738	0	0	566,750	825,500	60
Groveton Paper Board Inc., Groveton, Coos	0	0	897	47	358,908	24,750	213,183	597,785	0
Kalwall Corp. Panels & Accessories Div., Manchester, Hillsborough	2,768	0	0	281	0	1,125	94,947	99,121	0
Nashua Corp., Merrimack, Hillsborough	1,090,425	0	0	17,968	11,713	46	90,275	1,210,427	16,955
Textile Tapes Corp., Gonic, Strafford	0	0	0	0	0	0	79,600	79,600	0
Sturm Ruger Co. Inc. Pine Tree Castings Div., Newport, Sullivan	786,172	237,270	0	0	256,406	0	78,890	1,358,738	0
Osram Sylvania Prods. Inc., Hillsboro, Hillsborough	0	109,825	0	0	0	0	76,555	186,380	0
Hadco Corp., Derry, Rockingham	0	271,008	0	0	111,040	131,169	71,519	584,736	0
Kalwall Corp/Flat Sheet Div., Bow, Merrimack	0	0	0	0	0	0	61,401	61,401	55

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Merrimack Station, Bow, Merrimack	0	0	0	0	470	0	2,173,300	2,173,770	0
Public Service Co. of New Hampshire Schiller Station, Portsmouth, Rockingham	0	0	0	0	0	0	360,800	360,800	0
Newington Station, Newington, Rockingham	0	0	0	0	0	0	222,700	222,700	0
Chemtan Co. Inc., Exeter, Rockingham	0	0	0	0	0	16	418	434	0
Harcros Chemicals Inc., Nashua, Hillsborough	0	0	0	0	0	0	0	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## NEW JERSEY

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	15,509,062	8,666,505	24,175,567
Air Emissions	8,183,307	8,268,025	16,451,332
Surface Water Discharges	5,382,208	14,780	5,396,988
Underground Injection Class I Wells	2	0	2
Underground Injection Class II-V Wells	2	0	2
On-site Land Releases to RCRA Subtitle C Landfills	164,498	0	164,498
Other On-site Land Releases	1,779,045	383,700	2,162,745
Off-site Releases (Transfers Off-site to Disposal)*	6,308,938	798,880	7,107,818
<b>Total On- and Off-site Releases</b>	<b>21,818,000</b>	<b>9,465,385</b>	<b>31,283,385</b>
Recycled On-site	90,609,387	8,083,665	98,693,052
Recycled Off-site	38,954,247	482,043	39,436,290
Energy Recovery On-site	192,070,114	0	192,070,114
Energy Recovery Off-site	46,684,889	24,126,516	70,811,405
Treated On-site	133,101,076	32,381,339	165,482,415
Treated Off-site**	41,396,542	1,721,299	43,117,841
Quantity Released On- and Off-site***	20,996,994	9,442,087	30,439,081
<b>Total Production-related Waste Managed</b>	<b>563,813,249</b>	<b>76,236,949</b>	<b>640,050,198</b>
<b>Total Non-production-related Waste Managed</b>	<b>65,799</b>	<b>351,068</b>	<b>416,867</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	38,186,917	469,830	38,656,747
Energy Recovery	46,536,340	23,171,918	69,708,258
Treatment	5,232,307	4,406,509	9,638,816
Publicly Owned Treatment Works (POTWs)	36,072,715	181,391	36,254,106
Metals and Metal Compounds*	46,212	73	46,285
Non-metal TRI Chemicals**	36,026,503	181,318	36,207,821
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	6,317,331	805,826	7,123,157
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>132,345,610</b>	<b>29,035,474</b>	<b>161,381,084</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

Andrew Opperman  
(609) 292-6714

Fax: (609) 633-7031

E-mail: aopperma@dep.state.nj.us

#### EPA Regional Contact:

Nora Lopez  
(732) 906-6890

Fax: (732) 321-6788

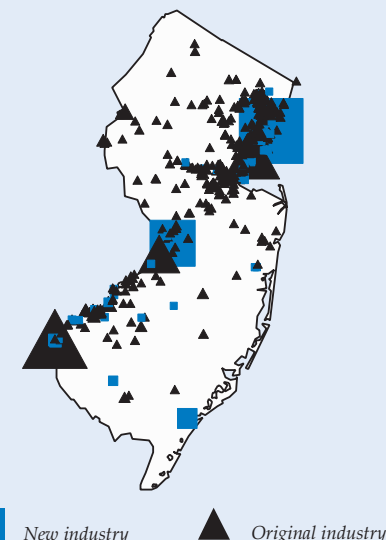
E-mail: lopez.nora@epa.gov

#### To obtain TRI data use

assistance, call TRI User  
Support Service (TRI-US):

(202) 260-1531

Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of New Jersey. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	8,143,412
Square Miles	7,419
Total Facilities	569
Total Forms	2,306
Form As	392

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	30	39	35
Pounds	21,818,000	9,465,385	31,283,385
<b>National Rank for Total On-site Releases**</b>			
Rank	35	39	38
Pounds	15,509,062	8,666,505	24,175,567
<b>National Rank for Total Releases within State***</b>			
Rank	28	39	34
Pounds	24,587,048	9,000,793	33,587,841
<b>National Rank for Production-related Waste Managed</b>			
Rank	13	22	16
Pounds	563,813,249	76,236,949	640,050,198

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

# NEW JERSEY

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Nitrate compounds	215	4,517,078	0	0	970	4,518,263	2,816	970	0
--	Zinc compounds	15,102	21,166	0	1,307,081	1,882,239	3,225,588	124,023	1,412,551	470,192
7647-01-0	Hydrochloric acid	111,496	5	0	0	1,658,203	1,769,704	59,052	0	1,658,203
1330-20-7	Xylene (mixed isomers)	839,030	1,621	0	1,921	194,875	1,037,447	0	183,892	10,983
108-88-3	Toluene	961,501	810	0	840	59,402	1,022,553	30,581	49,807	9,595
67-56-1	Methanol	959,910	3	2	0	5,864	965,779	5,296	444	5,420
7664-41-7	Ammonia	599,646	338,459	0	0	14,176	952,281	17,617	13,390	786
--	Lead compounds	6,132	2,360	0	94,175	576,437	679,104	44,814	472,740	103,697
--	Glycol ethers	430,214	7	0	2,219	137,440	569,880	2,450	130,700	6,740
78-93-3	Methyl ethyl ketone	420,687	617	0	301	116,657	538,262	3,487	113,594	3,063

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

Note: Due to an EPA data entry error, one chemical reporting revision for 1999 by a facility, the US Army Letterkenny Depot in Chambersburg, PA, reporting in the original industry sector was not included in this table. At the time of publication, the facility had notified EPA that it anticipated revising off-site transfers to disposal (transferred into the state of New Jersey) for manganese compounds from 5,584,900 pounds to below 500 pounds. Revisions by this facility of two other compounds are included in the State Fact Sheet tables but not included in the tables in the 1999 TRI Public Data Release report.

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	6,093,200	0	0	0	0	6,093,200	0	0	0
7664-93-9	Sulfuric acid	970,002	0	0	0	0	970,002	0	0	0
--	Lead compounds	541	271	0	27,000	455,247	483,059	1,421	2,858	453,530
7664-41-7	Ammonia	278,484	1,833	0	4,700	0	285,017	0	0	0
7664-39-3	Hydrogen fluoride	253,545	0	0	0	0	253,545	0	0	0
--	Barium compounds	4,661	500	0	160,000	44,969	210,130	3,579	25,893	19,076
--	Zinc compounds	54,418	5,108	0	47,000	89,684	196,210	2,437	88,571	1,121
1634-04-4	Methyl tert-butyl ether	181,532	666	0	0	627	182,825	3,259	5	622
75-45-6	Chlorodifluoromethane (HCFC-22)	107,851	0	0	0	0	107,851	0	0	0
--	Copper compounds	1,482	1,857	0	38,000	48,843	90,182	1,427	4,213	44,630

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## NEW JERSEY

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Du Pont Chambers Works, Deepwater, Salem	339,701	2,553,858	0	0	147,298	0	3,040,857	0	316,293
Bayway Refining Co., Linden, Union	538,080	2,003,547	0	0	0	0	2,541,627	0	1,610
Griffin Pipe Prods. Co., Florence, Burlington	20,244	0	0	0	0	1,754,783	1,775,027	0	0
Ford Edison Assembly Plant, Edison, Middlesex	665,473	0	0	0	0	0	665,473	4,730	5,951
Roche Vitamins Inc., Belvidere, Warren	440,468	6,402	0	0	0	0	446,870	0	2,533
Coastal Eagle Point Oil Co., Westville, Gloucester	340,942	74,833	0	0	0	0	415,775	11,215	540
Degussa Corp. Metal Group, South Plainfield, Middlesex	308,547	0	0	0	0	0	308,547	64	0
Gmtg Linden Assembly, Linden, Union	302,260	0	0	0	0	0	302,260	2,460	46,539
Du Pont Repauno Plant, Gibbstown, Gloucester	0	231,820	0	0	0	0	231,820	50,180	0
Mallinckrodt Baker Inc., Phillipsburg, Warren	73,218	151,175	0	0	0	0	224,393	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	<u>Underground Injection</u>				<u>On-site Releases to Land</u>			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Hudson Generating Station, Jersey City, Hudson	3,502,580	4,800	0	0	0	383,700	3,891,080	756	0
Mercer Generating Station, Hamilton Township, Mercer	2,620,720	2,600	0	0	0	0	2,623,320	1,697	0
B.L. England Generating Station, Beesleys Point, Cape May	852,726	4,793	0	0	0	0	857,519	126,093	0
Deepwater Generating Station, Pennsville, Salem	387,856	0	0	0	0	0	387,856	3,058	19,076
Natl. Refrigerants Inc., Rosenhayn, Cumberland	155,197	0	0	0	0	0	155,197	0	0
Eagle Point Cogeneration Ptnr. (EPCP), Westville, Gloucester	99,672	0	0	0	0	0	99,672	0	0
Sewaren Terminal, Sewaren, Middlesex	76,900	330	0	0	0	0	77,230	0	11
Cogen Techs. NJ Venture L.P., Bayonne, Hudson	70,022	0	0	0	0	0	70,022	0	0
Newark Bay Cogeneration Plant, Newark, Essex	64,355	0	0	0	0	0	64,355	0	0
PG&E Generating, Carneys Point, Salem	59,191	0	0	0	0	0	59,191	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## NEW JERSEY

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Du Pont Chambers Works, Deepwater, Salem	0	893,907	0	1,331,702	33,454,726	2,976,454	3,349,547	42,006,336	7,594
Bayway Refining Co., Linden, Union	532,560	8,122	0	0	13,616,600	325	2,538,271	16,695,878	8,157
Penick Corp., Newark, Essex	36,883,800	0	0	0	0	1,876,521	1,897,518	40,657,839	0
Griffin Pipe Prods. Co., Florence, Burlington	0	1,737,861	0	0	1,287,211	52,932	1,775,040	4,853,044	0
Ford Edison Assembly Plant, Edison, Middlesex	0	587,241	0	39,150	402,080	14,185	686,757	1,729,413	0
Roche Vitamins Inc., Belvidere, Warren	0	0	0	0	151,519	0	487,154	638,673	0
Coastal Eagle Point Oil Co., Westville, Gloucester	0	0	78,176,676	18,890,872	1,064,155	16,616	414,579	98,562,898	1,191
API Foils Inc., Rahway, Union	0	0	1,013,660	313,006	0	313,006	411,392	2,051,064	0
M&M/Mars, Hackettstown, Warren	0	0	0	0	0	0	403,560	403,560	0
Gmtg Linden Assembly, Linden, Union	0	62,900	0	141,504	73,690	99,000	376,739	753,833	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Hudson Generating Station, Jersey City, Hudson	0	0	0	0	100,000	0	3,888,000	3,988,000	0
Mercer Generating Station, Hamilton Township, Mercer	0	0	0	0	75,000	0	2,626,490	2,701,490	0
B.L. England Generating Station, Beesleys Point, Cape May	0	0	0	0	976,698	0	983,908	1,960,606	0
S&W Waste Inc., South Kearny, Hudson	0	14,000	0	0	433,100	21,900	469,000	938,000	0
Deepwater Generating Station, Pennsville, Salem	0	0	0	0	48,341	0	409,990	458,331	0
Natl. Refrigerants Inc., Rosenhayn, Cumberland	0	0	0	0	0	0	155,197	155,197	0
Safety-Kleen Sys. Inc., Linden, Union	333,751	400,868	0	2,929,927	15,934	1,366,333	102,824	5,149,637	8
Eagle Point Cogeneration Ptnr. (EPCP), Westville, Gloucester	0	0	0	0	0	0	99,681	99,681	0
Sewaren Terminal, Sewaren, Middlesex	0	0	0	0	24,457	3,442	77,245	105,144	0
Cogen Techs. NJ Venture L.P., Bayonne, Hudson	0	0	0	0	0	0	70,022	70,022	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## NEW MEXICO

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	20,262,627	239,843,287	260,105,914
Air Emissions	967,845	893,657	1,861,502
Surface Water Discharges	15,028	8,208	23,236
Underground Injection Class I Wells	315	0	315
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	19,279,439	238,941,422	258,220,861
Off-site Releases (Transfers Off-site to Disposal)*	200,551	1,969,712	2,170,263
<b>Total On- and Off-site Releases</b>	<b>20,463,178</b>	<b>241,812,999</b>	<b>262,276,177</b>
Recycled On-site	1,541,221	0	1,541,221
Recycled Off-site	4,559,295	729,444	5,288,739
Energy Recovery On-site	24,151,974	0	24,151,974
Energy Recovery Off-site	86,723	0	86,723
Treated On-site	5,590,356	3,611,221	9,201,577
Treated Off-site**	694,733	1,172	695,905
Quantity Released On- and Off-site***	22,896,622	244,610,546	267,507,168
<b>Total Production-related Waste Managed</b>	<b>59,520,924</b>	<b>248,952,383</b>	<b>308,473,307</b>
<b>Total Non-production-related Waste Managed</b>	<b>9</b>	<b>201</b>	<b>210</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	6,692,218	371,186	7,063,404
Energy Recovery	89,583	0	89,583
Treatment	116,596	2,260	118,856
Publicly Owned Treatment Works (POTWs)	797,488	0	797,488
Metals and Metal Compounds*	131	0	131
Non-metal TRI Chemicals**	797,357	0	797,357
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	200,420	4,304,710	4,505,130
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>7,896,305</b>	<b>4,678,156</b>	<b>12,574,461</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

Max Johnson  
(505) 476-9620  
Fax: (505) 476-9695  
E-mail: Mjohnson@DPS.state.nm.us

#### EPA Regional Contact:

Warren Layne  
(214) 665-8013  
Fax: (214) 665-6762  
E-mail: layne.warren@epa.gov  
Morton E. Wakeland, Jr.  
(214) 665-8116

#### To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of New Mexico. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	1,739,844
Square Miles	121,365
Total Facilities	60
Total Forms	311
Form As	35

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	33	5	7
Pounds	20,463,178	241,812,999	262,276,177
<b>National Rank for Total On-site Releases**</b>			
Rank	30	5	6
Pounds	20,262,627	239,843,287	260,105,914
<b>National Rank for Total Releases within State***</b>			
Rank	33	5	7
Pounds	20,333,512	241,812,999	262,146,511
<b>National Rank for Production-related Waste Managed</b>			
Rank	42	6	31
Pounds	59,520,924	248,952,383	308,473,307

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## NEW MEXICO

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Zinc compounds	2,205	760	0	10,000,000	17,354	10,020,319	0	17,354	0
--	Copper compounds	72,000	13,000	0	7,060,000	0	7,145,000	1,597	0	0
--	Barium compounds	160	0	0	630,000	12,100	642,260	0	12,100	0
--	Lead compounds	4,510	250	0	453,300	17,855	475,915	0	17,855	0
--	Arsenic compounds	740	38	0	270,000	19,000	289,778	17	0	19,000
--	Manganese compounds	138	510	0	250,000	0	250,648	0	0	0
108-88-3	Toluene	180,855	0	24	260	0	181,139	0	0	0
--	Chromium compounds	10	60	0	110,000	70,000	180,070	0	0	70,000
--	Cobalt compounds	8	0	0	180,000	0	180,008	0	0	0
--	Nitrate compounds	0	0	0	170,189	0	170,189	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Copper compounds	159,322	5,402	0	115,278,158	43,000	115,485,882	0	183,000	0
--	Manganese compounds	10,890	424	0	85,978,573	207,000	86,196,887	0	437,000	0
--	Zinc compounds	3,856	2,300	0	17,781,284	87,000	17,874,440	0	187,000	0
--	Lead compounds	10,297	4	0	9,585,168	0	9,595,469	0	120,000	0
--	Barium compounds	7,177	0	0	4,302,169	1,500,000	5,809,346	0	3,100,000	0
--	Chromium compounds	695	0	0	2,997,547	33,002	3,031,244	0	88,000	0
--	Cobalt compounds	421	0	0	1,672,989	27,000	1,700,410	0	48,000	0
--	Nickel compounds	761	1	0	682,541	16,000	699,303	0	50,000	0
--	Arsenic compounds	2,323	0	0	332,288	34,000	368,611	0	34,000	0
7664-93-9	Sulfuric acid	347,729	0	0	0	0	347,729	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## NEW MEXICO

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection					On-site Releases to Land		Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Phelps Dodge Hidalgo Inc., Playas, Hidalgo	161,923	14,768	0	0	0	19,100,700	19,277,391	0	123,005
Navajo Refining Co., Artesia, Eddy	208,578	0	315	0	0	575	209,468	17,354	490
Giant Refining Co., Jamestown, Mc Kinley	154,630	0	0	0	0	26,670	181,300	0	0
San Juan Refining Co., Bloomfield, San Juan	159,065	0	0	0	0	0	159,065	0	0
F & A Dairy Prods. Inc., Las Cruces, Dona Ana	0	0	0	0	0	114,374	114,374	0	0
Elastimold, Albuquerque, Bernalillo	38,553	0	0	0	0	0	38,553	19,360	0
Parkview Metal Prods. L.L.C., Las Cruces, Dona Ana	36,486	0	0	0	0	0	36,486	0	0
Intel Corp. MS F09-605, Rio Rancho, Sandoval	36,205	0	0	0	0	0	36,205	0	7,855
Foamex L.P., Santa Teresa, Dona Ana	34,164	0	0	0	0	0	34,164	0	0
Novabus Inc., Roswell, Chaves	30,750	0	0	0	0	770	31,520	775	5

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection					On-site Releases to Land		Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Chino Mines Co., Hurley, Grant	311,779	6	0	0	0	193,698,997	194,010,782	0	0
Phelps Dodge Tyrone Inc., Tyrone, Grant	16,410	0	0	0	0	39,335,085	39,351,495	0	0
BHP Navajo Coal Co., Fruitland, San Juan	0	0	0	0	0	2,359,000	2,359,000	0	0
San Juan Mine, Waterflow, San Juan	0	0	0	0	0	1,986,334	1,986,334	0	0
Four Corners Steam Electric Station, Fruitland, San Juan	235,193	8,202	0	0	0	1,184,100	1,427,495	2,362,000	0
Plains Escalante Generating Station, Prewitt, Mc Kinley	7,308	0	0	0	0	343,286	350,594	0	0
San Juan Generating Station, Waterflow, San Juan	304,108	0	0	0	0	34,620	338,728	1,942,000	0
Albuquerque Refined Prods. Terminal, Albuquerque, Bernalillo	12,476	0	0	0	0	0	12,476	0	0
Griffith Micro Science Inc., Santa Teresa, Dona Ana	5,320	0	0	0	0	0	5,320	0	0
American Minerals Inc., Deming, Luna	968	0	0	0	0	0	968	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.





# 1999 Toxics Release Inventory

## NEW MEXICO

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Phelps Dodge Hidalgo Inc., Playas, Hidalgo	4,200	3,400,042	0	0	0	0	21,465,672	24,869,914	0
Navajo Refining Co., Artesia, Eddy	35,795	15,945	24,151,974	0	721,084	0	226,812	25,151,610	0
Giant Refining Co., Jamestown, Mc Kinley	0	0	0	0	0	0	169,673	169,673	0
San Juan Refining Co., Bloomfield, San Juan	0	295	0	0	9,890	7,560	161,135	178,880	0
Philips Electronics N.A. Corp., Albuquerque, Bernalillo	0	0	0	18,217	181,025	131,105	129,398	459,745	0
F & A Dairy Prods. Inc., Las Cruces, Dona Ana	0	0	0	0	199,169	0	114,374	313,543	0
Silmax L.L.C., Albuquerque, Bernalillo	0	0	0	0	125,650	111,852	94,282	331,784	0
Dairy Farmers of America Inc., Lovington, Lea	0	0	0	0	80,590	0	80,590	161,180	0
CTS Wireless Prods., Albuquerque, Bernalillo	0	0	0	0	0	0	64,191	64,191	2
Elastimold, Albuquerque, Bernalillo	0	0	0	2,740	0	0	57,914	60,654	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Chino Mines Co., Hurley, Grant	0	693,846	0	0	0	0	194,815,311	195,509,157	29
Phelps Dodge Tyrone Inc., Tyrone, Grant	0	0	0	0	0	0	39,033,415	39,033,415	14
Four Corners Steam Electric Station, Fruitland, San Juan	0	0	0	0	2,360,000	0	3,784,000	6,144,000	0
BHP Navajo Coal Co., Fruitland, San Juan	0	0	0	0	0	0	2,359,000	2,359,000	12
San Juan Generating Station, Waterflow, San Juan	0	0	0	0	496,000	0	2,263,000	2,759,000	0
San Juan Mine, Waterflow, San Juan	0	0	0	0	0	0	1,986,334	1,986,334	0
Plains Escalante Generating Station, Prewitt, Mc Kinley	0	0	0	0	254,111	0	350,629	604,740	0
Albuquerque Refined Prods. Terminal, Albuquerque, Bernalillo	0	0	0	0	108,110	1,172	11,824	121,106	142
Griffith Micro Science Inc., Santa Teresa, Dona Ana	0	0	0	0	393,000	0	5,300	398,300	0
American Minerals Inc., Deming, Luna	0	0	0	0	0	0	968	968	3

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## NEW YORK

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	26,605,235	35,250,361	61,855,596
Air Emissions	16,821,976	19,570,770	36,392,746
Surface Water Discharges	9,458,323	369,315	9,827,638
Underground Injection Class I Wells	250	0	250
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	11,982	6,184,700	6,196,682
Other On-site Land Releases	312,704	9,125,576	9,438,280
Off-site Releases (Transfers Off-site to Disposal)*	9,235,693	722,939	9,958,632
<b>Total On- and Off-site Releases</b>	<b>35,840,928</b>	<b>35,973,300</b>	<b>71,814,228</b>
Recycled On-site	155,961,572	1,170,500	157,132,072
Recycled Off-site	78,820,848	356,141	79,176,989
Energy Recovery On-site	26,617,963	0	26,617,963
Energy Recovery Off-site	6,192,842	244,836	6,437,678
Treated On-site	105,436,700	7,225,107	112,661,807
Treated Off-site**	15,678,021	191,054	15,869,075
Quantity Released On- and Off-site***	32,947,844	38,143,814	71,091,658
<b>Total Production-related Waste Managed</b>	<b>421,655,790</b>	<b>47,331,452</b>	<b>468,987,242</b>
<b>Total Non-production-related Waste Managed</b>	<b>4,127,502</b>	<b>9,931</b>	<b>4,137,433</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	77,018,773	420,878	77,439,651
Energy Recovery	5,970,393	245,097	6,215,490
Treatment	5,491,023	94,159	5,585,182
Publicly Owned Treatment Works (POTWs)	9,728,623	1,196	9,729,819
Metals and Metal Compounds*	143,380	189	143,569
Non-metal TRI Chemicals**	9,585,243	1,007	9,586,250
Other Off-site Transfers****	87,200	0	87,200
Off-site Transfers to Disposal (not including metals to POTWs)	9,775,548	740,264	10,515,812
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>108,071,560</b>	<b>1,501,594</b>	<b>109,573,154</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

Sitansu Ghosh

(518) 485-8472

Fax: (518) 457-2570

E-mail: sbghosh@gw.dec.state.ny.us

#### EPA Regional Contact:

Nora Lopez

(732) 908-6890

Fax: (732) 321-6788

E-mail: lopez.nora@epa.gov

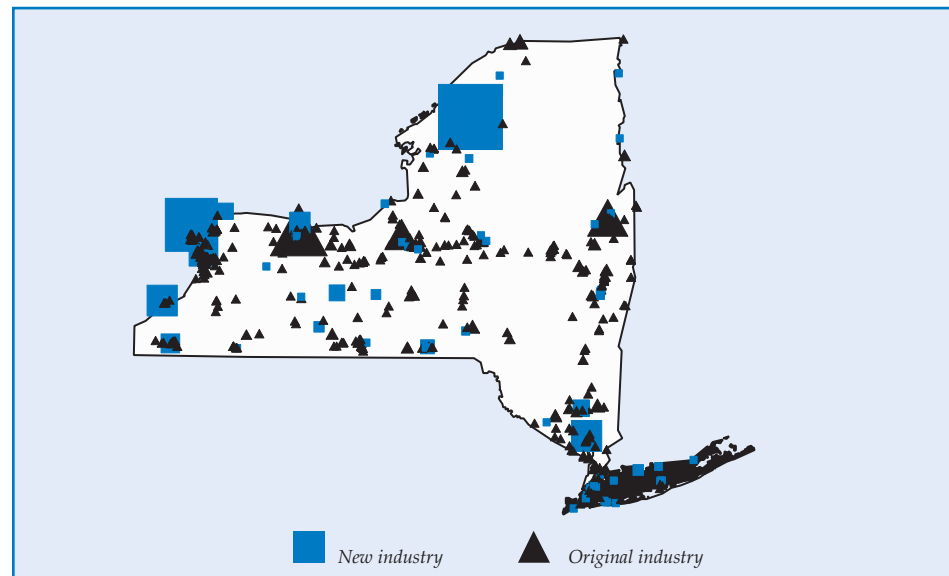
#### To obtain TRI data use

assistance, call TRI User

Support Service (TRI-US):

(202) 260-1531

Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of New York. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	18,196,601
Square Miles	47,224
Total Facilities	700
Total Forms	2,355
Form As	376

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	24	23	26
Pounds	35,840,928	35,973,300	71,814,228
<b>National Rank for Total On-site Releases**</b>			
Rank	25	23	27
Pounds	26,605,235	35,250,361	61,855,596
<b>National Rank for Total Releases within State***</b>			
Rank	26	23	27
Pounds	31,665,454	36,289,225	67,954,679
<b>National Rank for Production-related Waste Managed</b>			
Rank	17	27	20
Pounds	421,655,790	47,331,452	468,987,242

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## NEW YORK

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Nitrate compounds	1,493	8,995,338	0	29,527	68,096	9,094,454	0	49,987	18,109
--	Lead compounds	5,591	695	0	5	3,679,473	3,685,764	233,907	306,285	3,434,003
108-88-3	Toluene	2,291,290	1,103	0	761	72,952	2,366,106	5,864	58,821	14,131
67-56-1	Methanol	1,835,028	59,639	0	7,646	23,130	1,925,443	117	22,720	410
7647-01-0	Hydrochloric acid	1,832,637	0	0	0	5	1,832,642	0	0	5
75-09-2	Dichloromethane	1,686,549	3,405	0	0	20,929	1,710,883	1,070	9,290	11,639
7664-41-7	Ammonia	1,165,700	120,365	0	603	4,052	1,290,720	9,835	1,852	2,200
--	Zinc compounds	54,485	23,616	0	13,570	1,159,377	1,251,048	71,928	1,129,708	333,511
--	Glycol ethers	872,579	4,910	0	0	8,622	886,111	1,810	593	8,029
75-15-0	Carbon disulfide	772,000	0	0	0	1,404	773,404	0	1,404	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	11,736,560	0	0	0	0	11,736,560	0	0	0
--	Zinc compounds	1,323,738	38,768	0	7,112,819	249,671	8,724,996	68,316	10,738	238,933
7664-93-9	Sulfuric acid	5,000,469	0	0	0	0	5,000,469	0	0	0
--	Lead compounds	2,203	101	0	1,885,320	6,757	1,894,381	139,232	1	6,756
--	Barium compounds	54,242	175,429	0	1,334,315	306,255	1,870,241	26,978	167,103	139,152
--	Copper compounds	38,474	1,694	0	1,612,145	23,918	1,676,231	55,888	3,936	19,982
1336-36-3	Polychlorinated biphenyls (PCBs)	2	1	0	1,640,000	1	1,640,004	0	0	1
7664-39-3	Hydrogen fluoride	882,184	0	0	0	0	882,184	9	0	0
1332-21-4	Asbestos (friable)	0	0	0	770,000	0	770,000	0	0	0
--	Manganese compounds	1,932	60,540	0	447,777	28,802	539,051	10,367	10,190	18,612

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## NEW YORK

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Eastman Kodak Co. Kodak Park, Rochester, Monroe	4,613,173	633,564	0	0	0	759	5,247,496	200,289	1,860
Finch Pruyn & Co. Inc., Glens Falls, Warren	266,355	3,160,000	0	0	0	0	3,426,355	44,750	0
Anheuser-Busch Inc., Baldwinsville, Onondaga	32,167	2,626,983	0	0	0	0	2,659,150	1,790	0
3M Tonawanda, Tonawanda, Erie	815,300	0	0	0	0	0	815,300	1,404	0
Reynolds Metals Co. - St. Lawrence Reduction Plant, Massena, St Lawrence	767,337	3,100	0	0	0	0	770,437	250	0
IBM, Hopewell Junction, Dutchess	43,750	541,574	0	0	0	0	585,324	0	0
Amphenol Corp., Sidney, Delaware	46,589	526,868	0	0	0	0	573,457	0	59,030
Toshiba Display Devices Inc., Horseheads, Chemung	15,524	468,694	0	0	0	0	484,218	112,567	0
Alcoa Inc., Massena, St Lawrence	433,746	317	0	0	0	0	434,063	49,457	221
GE Co. Silicone Prods., Waterford, Saratoga	386,853	23,435	0	0	11,227	0	421,515	0	191,360

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
ZCA Mines Inc. #4 Mine & Mill, Gouverneur, St Lawrence	58,515	2,832	0	0	0	7,763,235	7,824,582	0	0
CWM Chemical Services L.L.C, Model City, Niagara	12	209	0	0	6,184,700	0	6,184,921	1	21,163
Southern Energy - Lovett Generating Station, Tomkins Cove, Rockland	3,194,862	1,702	0	0	0	0	3,196,564	5,256	184,863
NRG Dunkirk Ops. Inc. Dunkirk Steam Station, Dunkirk, Chautauqua	2,982,745	191,000	0	0	0	0	3,173,745	20,400	0
C.R. Huntley Steam Station, Tonawanda, Erie	2,812,720	163,001	0	0	0	0	2,975,721	38,600	0
Russell Station, Rochester, Monroe	1,830,820	422	0	0	0	1	1,831,243	92	0
Samuel Carlson Generating Station, Jamestown, Chautauqua	1,587,574	0	0	0	0	15	1,587,589	62,111	20,317
Central Hudson Gas & Electric Corp. Danskammer Generating Sta., Newburgh, Orange	1,236,720	65	0	0	0	23,650	1,260,435	0	0
AES Somerset Generation Plant, Barker, Niagara	316,867	307	0	0	0	903,000	1,220,174	0	0
AES Greenidge Generation Plant, Dresden, Yates	998,930	362	0	0	0	174,211	1,173,503	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## NEW YORK

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Eastman Kodak Co. Kodak Park, Rochester, Monroe	0	1,821,200	0	0	32,942,648	16,238	5,444,236	40,224,322	0
Finch Pruyn & Co. Inc., Glens Falls, Warren	0	0	0	0	3,680,000	0	3,470,000	7,150,000	0
Anheuser-Busch Inc., Baldwinsville, Onondaga	0	0	0	0	82,243	1,812	2,659,151	2,743,206	5
Buckbee-Mears Cortland, Cortland, Cortland	5,300	0	0	0	630,000	41,821	897,523	1,574,644	0
3M Tonawanda, Tonawanda, Erie	950,000	0	710,000	0	0	9,200	813,000	2,482,200	0
Reynolds Metals Co. - St. Lawrence Reduction Plant, Massena, St Lawrence	0	21,000	0	0	3,254,000	3,000	699,692	3,977,692	68,200
Toshiba Display Devices Inc., Horseheads, Chemung	1,385,277	701,884	0	9,097	528,256	1,118	596,954	3,222,586	0
GE Co. Silicone Prods., Waterford, Saratoga	930,000	1,700,000	1,400,000	0	21,220,900	18,052	592,408	25,861,360	11,010
IBM, Hopewell Junction, Dutchess	0	475,942	0	219,685	481,849	458,997	585,324	2,221,797	0
Amphenol Corp., Sidney, Delaware	0	78,526	0	0	716,324	7,595	573,436	1,375,881	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
ZCA Mines Inc. #4 Mine & Mill, Gouverneur, St Lawrence	0	0	0	0	0	0	10,140,911	10,140,911	0
CWM Chemical Services L.L.C, Model City, Niagara	0	389	0	0	18,500	64,049	6,210,615	6,293,553	0
Southern Energy - Lovett Generating Station, Tomkins Cove, Rockland	0	0	0	0	0	0	3,500,825	3,500,825	0
NRG Dunkirk Ops. Inc. Dunkirk Steam Station, Dunkirk, Chautauqua	0	0	0	0	729,000	0	3,195,000	3,924,000	0
C.R. Huntley Steam Station, Tonawanda, Erie	0	0	0	0	668,000	0	3,013,500	3,681,500	0
Russell Station, Rochester, Monroe	0	0	0	0	0	2	1,831,330	1,831,332	0
Samuel Carlson Generating Station, Jamestown, Chautauqua	0	0	0	0	0	0	1,670,779	1,670,779	0
Central Hudson Gas & Electric Corp. Danskammer Generating Sta., Newburgh, Orange	0	0	0	0	0	0	1,260,650	1,260,650	0
AES Somerset Generation Plant, Barker, Niagara	0	0	0	0	3,080,000	0	1,216,000	4,296,000	0
AES Greenidge Generation Plant, Dresden, Yates	0	0	0	0	0	0	1,172,962	1,172,962	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## NORTH CAROLINA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	60,894,966	90,821,366	151,716,332
Air Emissions	42,196,361	81,533,885	123,730,246
Surface Water Discharges	9,100,746	79,751	9,180,497
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	104,632	0	104,632
Other On-site Land Releases	9,493,227	9,207,730	18,700,957
Off-site Releases (Transfers Off-site to Disposal)*	6,226,869	407,330	6,634,199
<b>Total On- and Off-site Releases</b>	<b>67,121,835</b>	<b>91,228,696</b>	<b>158,350,531</b>
Recycled On-site	327,414,744	30,911	327,445,655
Recycled Off-site	84,106,160	909,234	85,015,394
Energy Recovery On-site	32,825,939	0	32,825,939
Energy Recovery Off-site	11,149,800	355,583	11,505,383
Treated On-site	136,464,165	3,454,767	139,918,932
Treated Off-site**	5,170,785	1,531,722	6,702,507
Quantity Released On- and Off-site***	67,054,426	91,477,122	158,531,548
<b>Total Production-related Waste Managed</b>	<b>664,186,019</b>	<b>97,759,339</b>	<b>761,945,358</b>
<b>Total Non-production-related Waste Managed</b>	<b>850,800</b>	<b>3,936</b>	<b>854,736</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	73,100,423	892,525	73,992,948
Energy Recovery	10,692,097	330,581	11,022,678
Treatment	2,314,647	1,476,183	3,790,830
Publicly Owned Treatment Works (POTWs)	2,787,203	1,341	2,788,544
Metals and Metal Compounds*	45,705	510	46,215
Non-metal TRI Chemicals**	2,741,498	831	2,742,329
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	6,693,240	549,475	7,242,715
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>95,587,610</b>	<b>3,250,105</b>	<b>98,837,715</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

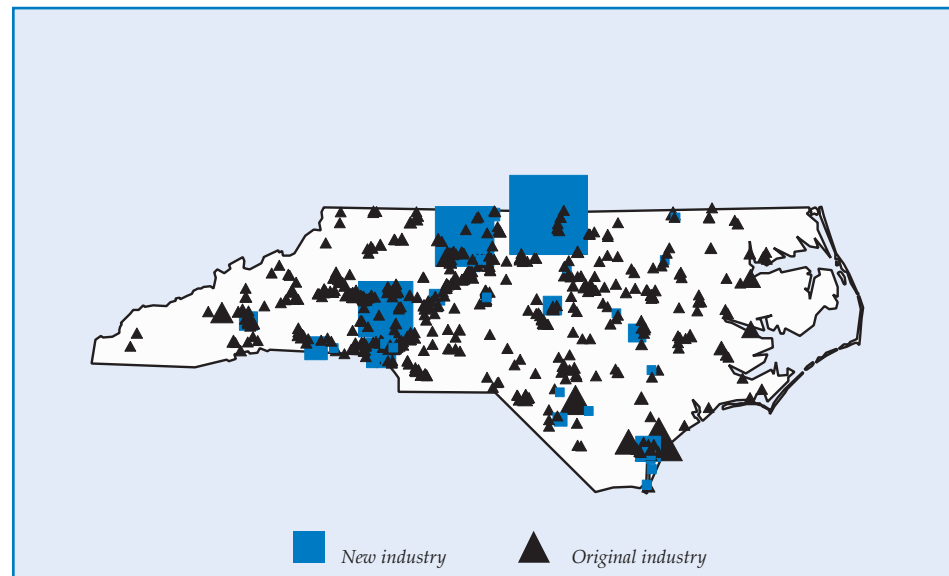
#### State Contact:

Richard Berman  
(919) 733-1361  
Fax: (919) 733-2860  
E-mail: nc-sara@ncem.org

#### EPA Regional Contact:

Ezequiel Velez  
(404) 562-9191  
Fax: (404) 562-9163  
E-mail: velez.ezequiel@epa.gov

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of North Carolina. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	7,650,789
Square Miles	48,718
Total Facilities	833
Total Forms	2,740
Form As	558

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	12	8	11
Pounds	67,121,835	91,228,696	158,350,531
<b>National Rank for Total On-site Releases**</b>			
Rank	12	7	9
Pounds	60,894,966	90,821,366	151,716,332
<b>National Rank for Total Releases within State***</b>			
Rank	12	8	12
Pounds	66,566,674	90,972,584	157,539,258
<b>National Rank for Production-related Waste Managed</b>			
Rank	9	17	12
Pounds	664,186,019	97,759,339	761,945,358

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

# NORTH CAROLINA

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
67-56-1	Methanol	9,136,067	64,609	0	17,781	12,751	9,231,208	143	10,657	2,094
--	Chromium compounds	7,040	578	0	8,900,003	132,815	9,040,436	18,034	123,289	9,526
--	Nitrate compounds	262	7,872,921	0	39,678	397,159	8,310,020	1,955	397,120	39
108-88-3	Toluene	5,276,212	48	0	403	112,812	5,389,475	10,301	112,092	720
7664-41-7	Ammonia	3,841,616	657,571	0	10,082	12,605	4,521,874	563	11,605	1,000
7647-01-0	Hydrochloric acid	2,473,480	0	0	0	317,530	2,791,010	0	0	317,530
110-54-3	n-Hexane	2,467,155	0	0	0	17	2,467,172	10,800	10	7
78-93-3	Methyl ethyl ketone	2,188,177	551	0	8,023	13,080	2,209,831	82,047	11,029	2,051
75-09-2	Dichloromethane	2,160,381	10	0	0	13,843	2,174,234	1,241	12,250	1,593
100-42-5	Styrene	1,755,549	0	0	0	81,400	1,836,949	0	80,867	533

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	74,102,036	0	0	0	0	74,102,036	0	0	0
--	Barium compounds	45,151	33,222	0	4,867,035	138,030	5,083,438	4,269	150,025	5
7664-39-3	Hydrogen fluoride	3,933,035	0	0	0	0	3,933,035	0	0	0
7664-93-9	Sulfuric acid	3,126,384	0	0	0	0	3,126,384	0	0	0
--	Copper compounds	6,396	4,199	0	882,030	30	892,655	0	2,220	10
--	Manganese compounds	10,505	16,930	0	752,030	30	779,495	351	1,320	10
--	Chromium compounds	8,928	1,297	0	651,730	30	661,985	3	1,220	10
--	Zinc compounds	19,337	1,682	0	631,020	270	652,309	3	2,065	5
--	Arsenic compounds	12,213	14,895	0	519,020	20	546,148	3	1,515	5
--	Nickel compounds	7,762	1,517	0	491,020	20	500,319	0	1,215	5

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## NORTH CAROLINA

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Occidental Chemical Corp., Castle Hayne, New Hanover	5,984	59	0	0	0	8,900,003	8,906,046	0	2,310
Smithfield Packing Co. Inc. - Tar Heel Div., Tar Heel, Bladen	22,505	5,161,753	0	0	0	0	5,184,258	0	0
International Paper, Riegelwood, Columbus	3,350,914	392,090	0	0	95,169	122,337	3,960,510	0	0
Blue Ridge Paper Prods. Inc., Canton, Haywood	2,741,511	91,152	0	0	0	0	2,832,663	268,677	0
Weyerhaeuser Co., Plymouth NC Mill, Plymouth, Martin	1,928,993	149,307	0	0	0	105,621	2,183,921	0	0
Shurtape Techs. Inc., Hickory Tape Plant, Hickory, Catawba	2,031,058	0	0	0	0	0	2,031,058	38,021	0
PCS Phosphate Co. Inc. Aurora Div., Aurora, Beaufort	1,826,374	0	0	0	0	12	1,826,386	0	0
Du Pont Cape Fear, Leland, Brunswick	1,240,234	483,750	0	0	0	1,795	1,725,779	27,455	25,745
Weyerhaeuser, Vanceboro, Craven	957,240	72,245	0	0	0	1,025	1,030,510	0	0
Railroad Friction Prods. Corp., Maxton, Scotland	960,076	13	0	0	0	0	960,089	98,000	12

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Roxboro Steam Electric Plant, Semora, Person	19,295,190	5,474	0	0	0	2,094,700	21,395,364	0	0
Duke Energy Belews Creek Steam Station, Walnut Cove, Stokes	14,639,075	3,971	0	0	0	838,655	15,481,701	55	0
Duke Energy Marshall Steam Station, Terrell, Catawba	12,397,670	6,000	0	0	0	1,773,155	14,176,825	57	0
Mayo Electric Generating Plant, Roxboro, Person	7,695,607	7,088	0	0	0	784,800	8,487,495	22,050	0
Duke Energy Plant Allen, Belmont, Gaston	5,470,125	17,071	0	0	0	883,045	6,370,241	0	40
L. V. Sutton Plant, Wilmington, New Hanover	4,406,495	5,086	0	0	0	574,000	4,985,581	0	0
Duke Energy, Cliffside Steam Station, Cliffside, Rutherford	3,875,025	17,991	0	0	0	410,040	4,303,056	40	0
Cape Fear Steam Electric Plant, Moncure, Chatham	2,652,444	381	0	0	0	361,000	3,013,825	0	0
Asheville Plant, Arden, Buncombe	2,416,916	7,022	0	0	0	501,000	2,924,938	0	0
H.F. Lee Steam Electric Plant, Goldsboro, Wayne	2,366,576	2,945	0	0	0	375,000	2,744,521	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.





# 1999 Toxics Release Inventory

## NORTH CAROLINA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Occidental Chemical Corp., Castle Hayne, New Hanover	0	0	0	0	0	0	8,900,000	8,900,000	8,000
Smithfield Packing Co. Inc. - Tar Heel Div., Tar Heel, Bladen	0	0	0	0	2,312,375	0	5,184,107	7,496,482	0
International Paper, Riegelwood, Columbus	0	0	7,693,787	0	14,302,549	0	4,497,121	26,493,457	1
Blue Ridge Paper Prods. Inc., Canton, Haywood	0	0	10,366,000	0	4,951,802	0	3,123,770	18,441,572	0
Weyerhaeuser Co., Plymouth NC Mill, Plymouth, Martin	61,974	0	0	240	18,360,833	0	2,183,921	20,606,968	0
Shurtape Techs. Inc., Hickory Tape Plant, Hickory, Catawba	18,945,592	0	0	47,284	0	0	2,091,903	21,084,779	0
PCS Phosphate Co. Inc. Aurora Div., Aurora, Beaufort	0	0	0	0	0	0	1,826,386	1,826,386	0
Du Pont Cape Fear, Leland, Brunswick	0	0	383,050	3,292,734	1,426,464	0	1,778,979	6,881,227	0
Railroad Friction Prods. Corp., Maxton, Scotland	853,300	0	0	0	0	0	1,058,000	1,911,300	0
Weyerhaeuser, Vanceboro, Craven	0	0	330,430	0	17,770,730	0	1,030,340	19,131,500	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Roxboro Steam Electric Plant, Semora, Person	0	0	0	0	12,000	0	21,475,000	21,487,000	120
Duke Energy Belews Creek Steam Station, Walnut Cove, Stokes	0	0	0	0	183,000	0	15,485,000	15,668,000	11
Duke Energy Marshall Steam Station, Terrell, Catawba	0	0	0	0	60,000	0	14,178,000	14,238,000	11
Mayo Electric Generating Plant, Roxboro, Person	0	0	0	0	0	0	8,510,300	8,510,300	10
Duke Energy Plant Allen, Belmont, Gaston	0	0	0	0	42,000	0	6,369,400	6,411,400	9
L. V. Sutton Plant, Wilmington, New Hanover	0	0	0	0	0	0	4,992,000	4,992,000	0
Duke Energy, Cliffside Steam Station, Cliffside, Rutherford	0	0	0	0	20,000	0	4,307,000	4,327,000	9
Cape Fear Steam Electric Plant, Moncure, Chatham	0	0	0	0	0	0	3,022,000	3,022,000	0
Asheville Plant, Arden, Buncombe	0	0	0	0	0	0	2,916,000	2,916,000	0
H.F. Lee Steam Electric Plant, Goldsboro, Wayne	0	0	0	0	0	0	2,740,000	2,740,000	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## NORTH DAKOTA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	2,441,712	10,722,141	13,163,853
Air Emissions	2,276,538	1,497,145	3,773,683
Surface Water Discharges	162,418	62,731	225,149
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	2,756	9,162,265	9,165,021
Off-site Releases (Transfers Off-site to Disposal)*	153,450	10,338,610	10,492,060
<b>Total On- and Off-site Releases</b>	<b>2,595,162</b>	<b>21,060,751</b>	<b>23,655,913</b>
Recycled On-site	2,480	0	2,480
Recycled Off-site	520,138	1,300	521,438
Energy Recovery On-site	0	0	0
Energy Recovery Off-site	41,491	0	41,491
Treated On-site	4,053,454	1,833,400	5,886,854
Treated Off-site**	528,994	0	528,994
Quantity Released On- and Off-site***	2,543,318	20,947,013	23,490,331
<b>Total Production-related Waste Managed</b>	<b>7,689,875</b>	<b>22,781,713</b>	<b>30,471,588</b>
<b>Total Non-production-related Waste Managed</b>	<b>3</b>	<b>5</b>	<b>8</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	550,486	1,300	551,786
Energy Recovery	65,892	0	65,892
Treatment	1,696	0	1,696
Publicly Owned Treatment Works (POTWs)	562,563	0	562,563
Metals and Metal Compounds*	286	0	286
Non-metal TRI Chemicals**	562,277	0	562,277
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	156,205	10,338,610	10,494,815
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>1,336,842</b>	<b>10,339,910</b>	<b>11,676,752</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

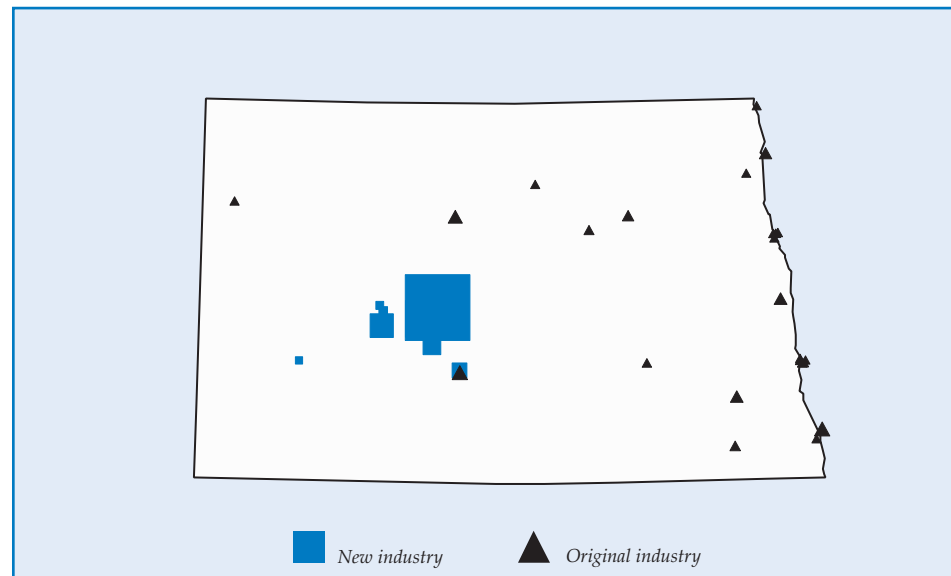
Ray DeBoer  
(701) 328-8100  
Fax: (701) 328-8181  
E-mail: rdeboer@state.nd.us

#### EPA Regional Contact:

Joyel Dhieux  
(303) 312-6447  
Fax: (303) 312-6044  
E-mail: dhieux.joyel@epa.gov

#### To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of North Dakota. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	633,666
Square Miles	68,994
Total Facilities	44
Total Forms	171
Form As	24

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	47	28	40
Pounds	2,595,162	21,060,751	23,655,913
<b>National Rank for Total On-site Releases**</b>			
Rank	47	35	42
Pounds	2,441,712	10,722,141	13,163,853
<b>National Rank for Total Releases within State***</b>			
Rank	47	28	40
Pounds	2,594,988	21,053,464	23,648,452
<b>National Rank for Production-related Waste Managed</b>			
Rank	49	34	46
Pounds	7,689,875	22,781,713	30,471,588

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## NORTH DAKOTA

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-41-7	Ammonia	783,195	15,546	0	750	110	799,601	0	0	110
110-54-3	n-Hexane	633,600	0	0	0	0	633,600	0	0	0
100-42-5	Styrene	197,872	5	0	0	0	197,877	0	0	0
--	Nitrate compounds	0	146,806	0	0	0	146,806	0	0	0
--	Glycol ethers	103,805	0	0	0	0	103,805	0	0	0
78-93-3	Methyl ethyl ketone	99,811	1	0	0	0	99,812	0	0	0
1330-20-7	Xylene (mixed isomers)	73,758	0	0	0	6	73,764	0	0	6
7664-39-3	Hydrogen fluoride	71,500	0	0	0	0	71,500	0	0	0
108-88-3	Toluene	66,122	0	0	1	3	66,126	0	0	3
115-07-1	Propylene	61,000	0	0	0	0	61,000	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Barium compounds	38,649	24,750	0	6,510,000	8,134,600	14,707,999	0	8,127,900	6,700
--	Manganese compounds	14,521	16,410	0	1,421,700	1,308,808	2,761,439	0	1,308,288	520
7664-39-3	Hydrogen fluoride	572,532	5	0	0	0	572,537	0	0	0
7664-93-9	Sulfuric acid	507,770	0	0	0	0	507,770	0	0	0
--	Arsenic compounds	6,457	9	0	148,740	206,388	361,594	0	206,382	6
7647-01-0	Hydrochloric acid	327,864	5	0	0	0	327,869	0	0	0
7440-39-3	Barium	3,108	0	0	290,000	4,300	297,408	0	4,300	0
--	Chromium compounds	4,484	271	0	105,100	183,104	292,959	0	183,104	0
--	Copper compounds	654	20,761	0	108,400	163,061	292,876	0	163,022	39
--	Antimony compounds	1,305	5	0	143,000	48,000	192,310	0	48,000	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## NORTH DAKOTA

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
BP Amoco Mandan Refy., Mandan, Morton	404,072	20,535	0	0	0	2,006	426,613	46	4,865
Minn-Dak Farmers Co-Op., Wahpeton, Richland	298,825	127,583	0	0	0	0	426,408	0	0
ADM Processing, Velva, Mc Henry	340,000	0	0	0	0	0	340,000	0	0
American Crystal Sugar Co., Hillsboro, Traill	255,450	250	0	0	0	0	255,700	0	0
ADM Northern Sun Div., Enderlin, Ransom	244,100	0	0	0	0	0	244,100	0	0
American Crystal Sugar Co., Drayton, Pembina	208,230	14,000	0	0	0	750	222,980	0	0
Nordic Fiberglass Inc., Devils Lake, Ramsey	159,588	0	0	0	0	0	159,588	0	0
Melroe Co., Gwinner, Sargent	102,755	0	0	0	0	0	102,755	24,106	0
Sioux Mfg. Corp., Fort Totten, Benson	68,703	0	0	0	0	0	68,703	0	0
Case Corp., Fargo, Cass	50,460	45	0	0	0	0	50,505	1,127	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Great River Energy, Coal Creek Station, Underwood, Mc Lean	627,525	1,515	0	0	0	4,295,600	4,924,640	1,343,800	0
Leland Olds Station, Stanton, Mercer	137,769	1,401	0	0	0	2,314,940	2,454,110	755,200	0
Otter Tail Power Co. Coyote Station, Beulah, Mercer	35,610	0	0	0	0	1,336,900	1,372,510	362,930	7,287
Milton R. Young Station, Center, Oliver	155,895	0	0	0	0	747,600	903,495	2,815,779	0
R.M. Heskett Station, Mandan, Morton	323,607	5	0	0	0	322,000	645,612	5,000	0
Great River Energy Stanton Station, Stanton, Mercer	93,305	59,810	0	0	0	0	153,115	754,614	0
Antelope Valley Station, Beulah, Mercer	122,512	0	0	0	0	0	122,512	4,294,000	0
Falkirk Mining Co., Underwood, Mc Lean	0	0	0	0	0	90,619	90,619	0	0
Coteau Properties Co. Freedom Mine, Beulah, Mercer	0	0	0	0	0	54,606	54,606	0	0
HCI Dyce Chemical Inc., Dickinson, Stark	922	0	0	0	0	0	922	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## NORTH DAKOTA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
BP Amoco Mandan Refy., Mandan, Morton	1,710	369	0	4	1,052,000	171	430,730	1,484,984	0
Minn-Dak Farmers Co-Op., Wahpeton, Richland	0	0	0	0	2,617,519	0	426,408	3,043,927	0
ADM Processing, Velva, Mc Henry	0	0	0	0	0	0	340,000	340,000	0
American Crystal Sugar Co., Hillsboro, Traill	0	0	0	0	255,200	0	255,200	510,400	0
ADM Northern Sun Div., Enderlin, Ransom	0	0	0	0	0	410	244,100	244,510	0
American Crystal Sugar Co., Drayton, Pembina	0	0	0	0	100,706	0	221,480	322,186	0
Nordic Fiberglass Inc., Devils Lake, Ramsey	0	0	0	0	0	0	159,588	159,588	1
TIC United Corp. Wil-Rich Div., Wahpeton, Richland	0	110,210	0	1,530	0	0	143,806	255,546	0
Melroe Co., Gwinner, Sargent	0	0	0	0	0	102,505	102,749	205,254	0
Cass Clay Creamery Inc., Fargo, Cass	0	0	0	0	0	0	64,000	64,000	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Great River Energy, Coal Creek Station, Underwood, Mc Lean	0	0	0	0	202,400	0	6,259,400	6,461,800	0
Antelope Valley Station, Beulah, Mercer	0	0	0	0	0	0	4,409,100	4,409,100	0
Milton R. Young Station, Center, Oliver	0	0	0	0	0	0	3,651,000	3,651,000	0
Leland Olds Station, Stanton, Mercer	0	0	0	0	0	0	3,228,600	3,228,600	0
Otter Tail Power Co. Coyote Station, Beulah, Mercer	0	0	0	0	1,054,000	0	1,689,170	2,743,170	0
Great River Energy Stanton Station, Stanton, Mercer	0	0	0	0	0	0	908,500	908,500	0
R.M. Heskett Station, Mandan, Morton	0	1,300	0	0	577,000	0	655,096	1,233,396	5
Falkirk Mining Co., Underwood, Mc Lean	0	0	0	0	0	0	90,619	90,619	0
Coteau Properties Co. Freedom Mine, Beulah, Mercer	0	0	0	0	0	0	54,606	54,606	0
HCI Dyce Chemical Inc., Dickinson, Stark	0	0	0	0	0	0	922	922	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## NORTHERN MARIANAS

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	0	3,412	3,412
Air Emissions	0	3,387	3,387
Surface Water Discharges	0	25	25
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	0	0	0
Off-site Releases (Transfers Off-site to Disposal)*	0	0	0
<b>Total On- and Off-site Releases</b>	0	3,412	3,412
Recycled On-site	0	0	0
Recycled Off-site	0	0	0
Energy Recovery On-site	0	0	0
Energy Recovery Off-site	0	0	0
Treated On-site	0	0	0
Treated Off-site**	0	0	0
Quantity Released On- and Off-site***	0	3,387	3,387
<b>Total Production-related Waste Managed</b>	0	3,387	3,387
<b>Total Non-production-related Waste Managed</b>	0	0	0

### Transfers Off-site for Further Waste Management/Disposal

Recycling	0	0	0
Energy Recovery	0	0	0
Treatment	0	0	0
Publicly Owned Treatment Works (POTWs)	0	0	0
Metals and Metal Compounds*	0	0	0
Non-metal TRI Chemicals**	0	0	0
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	0	0	0
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	0	0	0

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

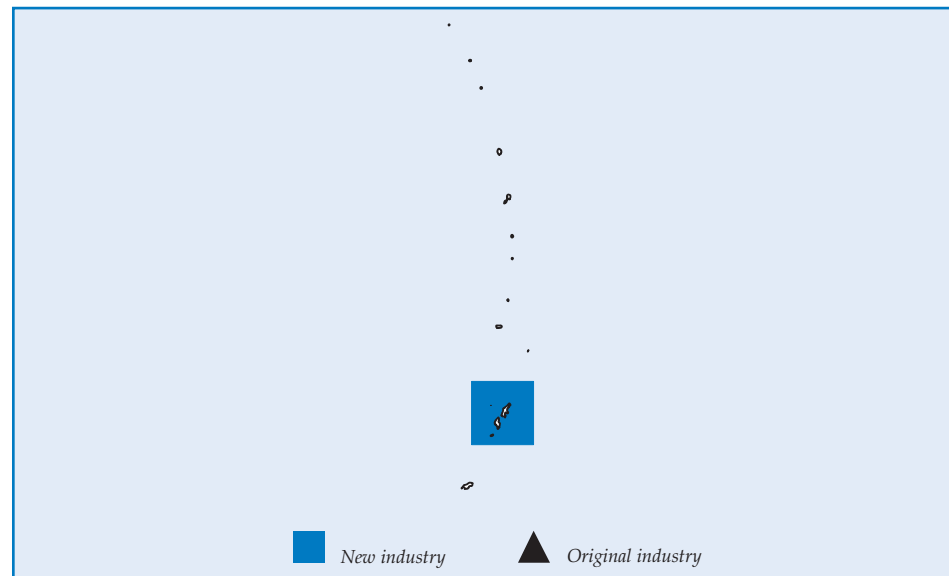
Ignacio Cabrera  
(670) 664-8500  
Fax: (670) 664-8540  
E-mail: deq.director@saipan.com

#### EPA Regional Contact:

Adam Browning  
(415) 744-1121  
Fax: (415) 744-1073  
E-mail: browning.adam@epa.gov

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531

Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the Northern Mariana Islands. All markers are proportionally-sized to represent the on-site releases at each facility within this territory.

### State/TRI Data

Population	69,216
Square Miles	179
Total Facilities	2
Total Forms	10
Form As	0

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	--	55	56
Pounds	0	3,412	3,412
<b>National Rank for Total On-site Releases**</b>			
Rank	--	55	56
Pounds	0	3,412	3,412
<b>National Rank for Total Releases within State***</b>			
Rank	--	55	56
Pounds	0	3,412	3,412
<b>National Rank for Production-related Waste Managed</b>			
Rank	--	55	56
Pounds	0	3,387	3,387

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## NORTHERN MARIANAS

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
108-88-3	Toluene	1,390	5	0	0	0	1,395	0	0	0
1330-20-7	Xylene (mixed isomers)	1,128	5	0	0	0	1,133	0	0	0
71-43-2	Benzene	355	5	0	0	0	360	0	0	0
100-41-4	Ethylbenzene	258	5	0	0	0	263	0	0	0
110-54-3	n-Hexane	256	5	0	0	0	261	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

# NORTHERN MARIANAS

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	<u>Underground Injection</u>				<u>On-site Releases to Land</u>			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	<u>Underground Injection</u>				<u>On-site Releases to Land</u>			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Mobil Oil Corp. Saipan Terminal, Saipan, Saipan	2,225	25	0	0	0	0	2,250	0	0
Mobil Oil Saipan Aviation Terminal, Saipan, Saipan	1,162	0	0	0	0	0	1,162	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.





# 1999 Toxics Release Inventory

## NORTHERN MARIANAS

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Energy Recovery Off-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Energy Recovery Off-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Mobil Oil Corp. Saipan Terminal, Saipan, Saipan	0	0	0	0	0	0	2,225	2,225	0
Mobil Oil Saipan Aviation Terminal, Saipan, Saipan	0	0	0	0	0	0	1,162	1,162	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## OHIO

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	103,317,360	150,568,758	253,886,118
Air Emissions	62,985,422	85,892,956	148,878,378
Surface Water Discharges	6,776,057	200,900	6,976,957
Underground Injection Class I Wells	14,285,086	13,360,000	27,645,086
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	1,994	38,573,000	38,574,994
Other On-site Land Releases	19,268,801	12,541,902	31,810,703
Off-site Releases (Transfers Off-site to Disposal)*	36,891,088	12,450,950	49,342,038
<b>Total On- and Off-site Releases</b>	<b>140,208,448</b>	<b>163,019,708</b>	<b>303,228,156</b>
Recycled On-site	221,607,081	34,087,331	255,694,412
Recycled Off-site	179,252,320	3,423,361	182,675,681
Energy Recovery On-site	139,872,485	0	139,872,485
Energy Recovery Off-site	32,105,026	28,160,685	60,265,711
Treated On-site	152,530,203	111,298,784	263,828,987
Treated Off-site**	34,641,356	2,794,063	37,435,419
Quantity Released On- and Off-site***	148,856,278	163,304,695	312,160,973
<b>Total Production-related Waste Managed</b>	<b>908,864,749</b>	<b>343,068,919</b>	<b>1,251,933,668</b>
<b>Total Non-production-related Waste Managed</b>	<b>1,072,725</b>	<b>16,610</b>	<b>1,089,335</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	178,972,268	3,428,694	182,400,962
Energy Recovery	31,220,833	28,155,027	59,375,860
Treatment	13,464,889	2,597,170	16,062,059
Publicly Owned Treatment Works (POTWs)	19,720,830	209,718	19,930,548
Metals and Metal Compounds*	245,570	834	246,404
Non-metal TRI Chemicals**	19,475,260	208,884	19,684,144
Other Off-site Transfers****	47,672	0	47,672
Off-site Transfers to Disposal (not including metals to POTWs)	47,986,155	12,664,195	60,650,350
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>291,412,647</b>	<b>47,054,804</b>	<b>338,467,451</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

Cindy DeWulf

(614) 644-3606

Fax: (614) 644-3681

E-mail: cindy.dewulf@epa.state.oh.us

#### EPA Regional Contact:

Thelma Codina

(312) 886-6219

Fax: (312) 353-4788

E-mail: codina.thelma@epa.gov

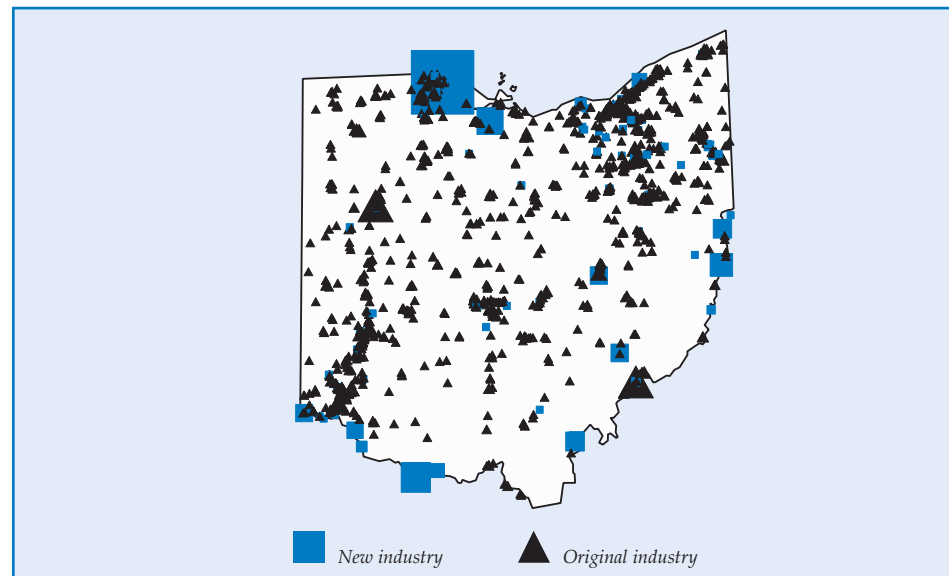
#### To obtain TRI data use

assistance, call TRI User

Support Service (TRI-US):

(202) 260-1531

Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Ohio. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	11,256,654
Square Miles	40,953
Total Facilities	1,642
Total Forms	6,118
Form As	894

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	2	6	2
Pounds	140,208,448	163,019,708	303,228,156
<b>National Rank for Total On-site Releases**</b>			
Rank	3	6	7
Pounds	103,317,360	150,568,758	253,886,118
<b>National Rank for Total Releases within State***</b>			
Rank	2	6	5
Pounds	181,594,608	163,086,283	344,680,891
<b>National Rank for Production-related Waste Managed</b>			
Rank	5	5	5
Pounds	908,864,749	343,068,919	1,251,933,668

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## OHIO

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Manganese compounds	564,568	315,336	250	11,340,210	5,745,115	17,965,479	4,276,543	4,916,120	900,348
--	Zinc compounds	337,219	14,563	0	4,412,740	9,168,558	13,933,080	25,474,847	7,812,959	3,990,875
7664-41-7	Ammonia	10,718,674	355,300	1,723,000	64,416	79,698	12,941,088	469,234	140,111	7,958
--	Nitrate compounds	1,796,274	5,892,162	252,000	213	151,776	8,092,425	119,567	119,082	32,694
75-05-8	Acetonitrile	12,027	0	7,444,000	0	0	7,456,027	0	0	0
7440-47-3	Chromium	53,314	1,025	0	7,945	6,915,623	6,977,907	585,764	7,015,882	18,742
463-58-1	Carbonyl sulfide	5,603,830	0	0	0	0	5,603,830	0	0	0
1330-20-7	Xylene (mixed isomers)	4,068,450	67	0	250	21,474	4,090,241	9,000	13,737	7,737
--	Glycol ethers	3,863,511	16	0	650	57,995	3,922,172	17,035	53,757	4,238
67-56-1	Methanol	3,693,099	9,611	89,000	0	4,714	3,796,424	47,828	4,476	260

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	64,513,879	1	0	0	0	64,513,880	0	0	0
7440-66-6	Zinc (fume or dust)	1,315	150	0	33,000,000	55,505	33,056,970	250	55,255	250
7664-93-9	Sulfuric acid	15,061,670	1	0	0	10	15,061,681	0	5	5
7664-39-3	Hydrogen fluoride	5,603,278	2	4,100,000	0	28,646	9,731,926	0	10,731	17,915
--	Barium compounds	26,192	49,068	0	5,312,758	1,663,528	7,051,546	109,424	1,621,869	69,922
7697-37-2	Nitric acid	247	0	6,200,000	0	26,876	6,227,123	10,041	5,812	26,871
--	Zinc compounds	22,749	32,364	850,000	1,186,973	3,556,312	5,648,398	118,856	3,510,974	62,003
--	Nickel compounds	12,416	14,032	140,000	1,003,377	2,690,873	3,860,698	2,842	2,653,182	43,386
--	Chromium compounds	11,944	3,638	720,000	1,037,077	1,500,207	3,272,866	24,162	1,469,825	48,863
7439-92-1	Lead	75	0	13,000	2,400,000	118,616	2,531,691	158,149	35,735	82,881

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## OHIO

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
BP Chemicals Inc., Lima, Allen	379,189	0	14,272,051	0	0	0	14,651,240	550	720
Eramet Marietta Inc., Marietta, Washington	4,242,671	578,000	0	0	0	9,664,800	14,485,471	0	52,500
LTV Steel Co. Inc. - Cleveland Works, Cleveland, Cuyahoga	63,660	102,560	0	0	0	4,889,350	5,055,570	1,041,230	42,530
Millennium Inorganic Chemicals Inc. - Plant 2, Ashtabula, Ashtabula	4,312,591	0	0	0	0	0	4,312,591	0	0
AK Steel Corp. Coshocton Works, Coshocton, Coshocton	26,620	4,001,090	0	0	0	0	4,027,710	327,800	0
PCS Nitrogen of Ohio L.P., Lima, Allen	3,640,795	59,920	0	0	0	0	3,700,715	0	0
GMC Powertrain Defiance, Defiance, Defiance	788,170	14,478	0	0	0	1,981,100	2,783,748	633	10
Astro Cos. Inc., Struthers, Mahoning	1,846,602	0	0	0	0	0	1,846,602	500	0
Owens-Corning, Newark, Licking	1,705,391	0	0	0	0	87,449	1,792,840	215	0
Ormet Primary Aluminum Corp., Hannibal, Monroe	1,480,900	0	0	0	0	0	1,480,900	367,000	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Envirosafe Services of Ohio Inc., Oregon, Lucas	960	0	0	0	38,573,000	0	38,573,960	1,025	1,255
Dayton Power & Light Co., J.M Stuart Station, Manchester, Adams	12,825,329	10,431	0	0	0	2,646,000	15,481,760	0	2
Vickery Environmental Inc., Vickery, Sandusky	190	0	13,360,000	0	0	0	13,360,190	0	55,180
American Electric Power Cardinal Plant, Brilliant, Jefferson	9,251,990	36,402	0	0	0	1,502,250	10,790,642	0	5,685
Kyger Creek Station, Gallipolis, Gallia	7,217,185	7,810	0	0	0	899,100	8,124,095	10	0
Firstenergy W.H. Sammis Plant, Stratton, Jefferson	7,889,882	12,287	0	0	0	33	7,902,202	2,280,200	0
American Electric Power Muskingum River Plant, Beverly, Washington	6,299,998	15,159	0	0	0	916,700	7,231,857	3,140	6
American Electric Power Conesville Plant, Conesville, Coshocton	5,971,741	23,366	0	0	0	1,130,420	7,125,527	88,927	0
CG&E Miami Fort Station, North Bend, Hamilton	6,526,448	12,741	0	0	0	411,035	6,950,224	1,216	3,517
CG&E Beckjord Station, New Richmond, Clermont	5,875,820	6,716	0	0	0	579,045	6,461,581	90,701	10,990

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## OHIO

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
BP Chemicals Inc., Lima, Allen	3,434,000	0	6,122,550	0	3,477,000	29,846	14,665,925	27,729,321	310
Eramet Marietta Inc., Marietta, Washington	0	46,300	0	0	17,000	0	14,537,971	14,601,271	0
American Steel Foundries Alliance Plant, Alliance, Stark	4,000,000	0	0	0	0	0	6,285,000	10,285,000	0
LTV Steel Co. Inc. - Cleveland Works, Cleveland, Cuyahoga	0	0	0	0	0	3,000	6,140,400	6,143,400	0
AK Steel Corp. Coshocton Works, Coshocton, Coshocton	0	0	0	0	8,000,000	127,000	4,357,210	12,484,210	0
Timken Co. - Faircrest Steel Plant, Canton, Stark	312,090	0	0	0	0	0	4,339,000	4,651,090	7
Millennium Inorganic Chemicals Inc. - Plant 2, Ashtabula, Ashtabula	0	0	0	0	3,401,300	0	4,312,635	7,713,935	0
Wheeling-Pittsburgh Steel Corp. Mingo Junction, Mingo Junction, Jefferson	0	0	0	0	0	0	3,974,653	3,974,653	0
PCS Nitrogen of Ohio L.P., Lima, Allen	3,167,500	0	0	0	2,922,000	0	3,698,710	9,788,210	200
CSC Ltd., Warren, Trumbull	0	0	0	0	0	0	3,402,778	3,402,778	9

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Envirosafe Services of Ohio Inc., Oregon, Lucas	0	0	0	0	0	0	38,573,000	38,573,000	0
Dayton Power & Light Co., J.M Stuart Station, Manchester, Adams	0	7	0	0	6,838,110	0	15,486,500	22,324,617	0
Vickery Environmental Inc., Vickery, Sandusky	0	0	0	0	0	1,919	13,365,000	13,366,919	0
American Electric Power Cardinal Plant, Brilliant, Jefferson	0	112,600	0	0	1,700,000	0	10,797,300	12,609,900	0
Firstenergy W.H. Sammis Plant, Stratton, Jefferson	0	0	0	0	0	0	10,167,000	10,167,000	15
Kyger Creek Station, Gallipolis, Gallia	0	0	0	0	2,200,000	0	8,118,000	10,318,000	0
Envirite of Ohio Inc., Canton, Stark	0	74,209	0	0	1,100,000	0	8,021,000	9,195,209	0
American Electric Power Muskingum River Plant, Beverly, Washington	0	1,423,000	0	0	890,000	0	7,235,400	9,548,400	0
American Electric Power Conesville Plant, Conesville, Coshocton	0	77,400	0	0	6,500,000	0	7,220,200	13,797,600	0
CG&E Miami Fort Station, North Bend, Hamilton	0	0	0	0	1,192,000	0	6,946,000	8,138,000	1

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## OKLAHOMA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	20,317,818	12,538,066	32,855,884
Air Emissions	16,763,490	1,563,013	18,326,503
Surface Water Discharges	3,046,633	16,578	3,063,211
Underground Injection Class I Wells	52,827	2,513,899	2,566,726
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	82,801	6,264,394	6,347,195
Other On-site Land Releases	372,067	2,180,182	2,552,249
Off-site Releases (Transfers Off-site to Disposal)*	2,643,197	1,570,176	4,213,373
<b>Total On- and Off-site Releases</b>	<b>22,961,015</b>	<b>14,108,242</b>	<b>37,069,257</b>
Recycled On-site	39,567,380	0	39,567,380
Recycled Off-site	22,990,740	2,007,159	24,997,899
Energy Recovery On-site	231,400	0	231,400
Energy Recovery Off-site	1,525,109	45,994	1,571,103
Treated On-site	34,661,231	5,279,467	39,940,698
Treated Off-site**	1,784,576	6,435	1,791,011
Quantity Released On- and Off-site***	22,806,188	14,147,763	36,953,951
<b>Total Production-related Waste Managed</b>	<b>123,566,624</b>	<b>21,486,818</b>	<b>145,053,442</b>
<b>Total Non-production-related Waste Managed</b>	<b>42,764</b>	<b>570</b>	<b>43,334</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	22,958,762	2,007,158	24,965,920
Energy Recovery	1,469,515	45,964	1,515,479
Treatment	560,248	2,247	562,495
Publicly Owned Treatment Works (POTWs)	1,521,599	63,277	1,584,876
Metals and Metal Compounds*	13,219	5	13,224
Non-metal TRI Chemicals**	1,508,380	63,272	1,571,652
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	2,827,223	1,570,756	4,397,979
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>29,337,347</b>	<b>3,689,402</b>	<b>33,026,749</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

Monty Elder  
(405) 702-1017

Fax: (405) 702-1001

E-mail: monty.elder@deqmail.state.ok.us

#### EPA Regional Contact:

Warren Layne  
(214) 665-8013

Fax: (214) 665-6762

E-mail: layne.warren@epa.gov

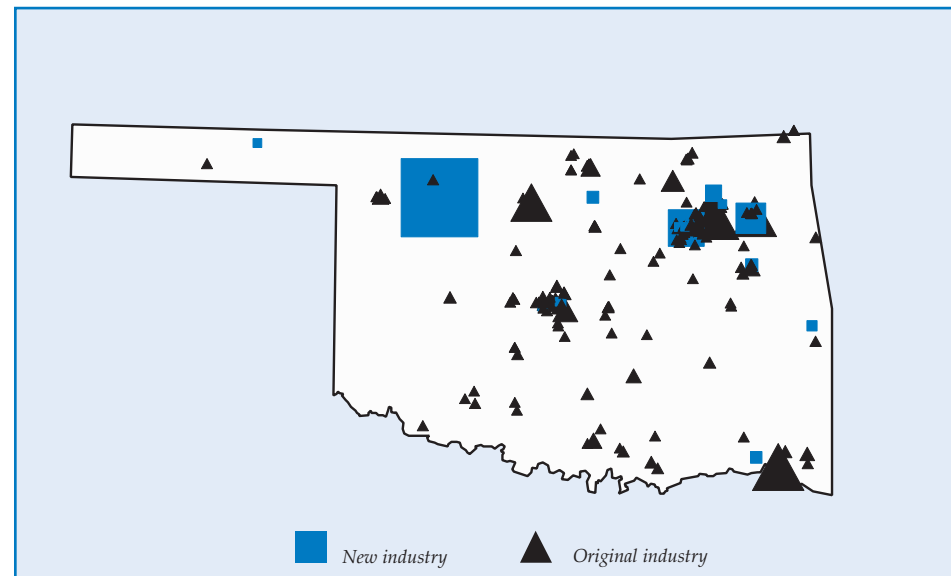
Morton E. Wakeland, Jr.  
(214) 665-8116

#### To obtain TRI data use

assistance, call TRI User  
Support Service (TRI-US):

(202) 260-1531

Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Oklahoma. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	3,358,044
Square Miles	68,679
Total Facilities	297
Total Forms	1,042
Form As	190

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	29	33	34
Pounds	22,961,015	14,108,242	37,069,257
<b>National Rank for Total On-site Releases**</b>			
Rank	29	33	33
Pounds	20,317,818	12,538,066	32,855,884
<b>National Rank for Total Releases within State***</b>			
Rank	24	33	30
Pounds	38,357,158	13,939,992	52,297,150
<b>National Rank for Production-related Waste Managed</b>			
Rank	33	35	37
Pounds	123,566,624	21,486,818	145,053,442

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## OKLAHOMA

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-41-7	Ammonia	5,703,809	63,194	0	596	1,600	5,769,199	1,008,594	1,600	0
--	Nitrate compounds	31	2,928,934	48,794	11,913	3,928	2,993,600	6,822,047	3,928	0
67-56-1	Methanol	2,870,223	8,893	0	12,608	1,800	2,893,524	18,956	0	1,800
108-88-3	Toluene	1,367,717	101	3,200	1,245	70,672	1,442,935	2,177	1	70,671
1330-20-7	Xylene (mixed isomers)	1,237,957	198	0	1,072	8,820	1,248,047	33,360	4	8,816
--	Zinc compounds	33,939	4,498	376	55,871	775,332	870,016	707,414	349,025	445,556
78-93-3	Methyl ethyl ketone	609,518	63	0	90	29,435	639,106	1,188	10,650	18,785
--	Manganese compounds	7,326	18,576	0	8,994	461,413	496,309	178,900	31,188	433,925
100-42-5	Styrene	488,039	0	0	0	750	488,789	0	750	0
7429-90-5	Aluminum (fume or dust)	8,213	0	0	57,622	382,745	448,580	0	330,000	52,745

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Barium compounds	32,982	3,153	0	2,036,297	923,237	2,995,669	1,903	809,010	114,227
--	Lead compounds	450	5	0	2,426,713	3	2,427,171	22,907	0	3
--	Nitrate compounds	0	0	2,384,931	0	4,175	2,389,106	2,136	0	4,175
--	Zinc compounds	4,628	3,170	750	983,458	79,006	1,071,012	44,980	45,690	33,316
--	Chromium compounds	1,704	210	0	969,844	39,296	1,011,054	7,371	16,105	23,191
7664-39-3	Hydrogen fluoride	929,907	0	0	0	0	929,907	0	0	0
--	Manganese compounds	3,601	615	0	294,116	421,260	719,592	537	164,010	257,250
--	Copper compounds	1,751	5,980	0	460,756	35,715	504,202	16,023	25,710	10,005
--	Nickel compounds	372	560	0	361,964	37,908	400,804	6,800	11,000	26,908
7647-01-0	Hydrochloric acid	388,230	0	0	0	0	388,230	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## OKLAHOMA

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Terra Nitrogen Ltd. Partnership, Claremore, Rogers	2,897,820	277,250	0	0	0	1,250	3,176,320	0	0
Weyerhaeuser Co., Valliant, Mc Curtain	2,895,001	42,057	0	0	30,274	0	2,967,332	0	0
Protein Techs. Intl. Inc., Pryor, Mayes	203	2,408,045	0	0	0	811	2,409,059	0	0
Farmland Inds. Inc., Enid, Garfield	2,212,394	5,810	0	0	0	500	2,218,704	0	0
GM SCG - Oklahoma City Assembly, Oklahoma City, Oklahoma	1,039,321	0	0	0	0	0	1,039,321	7,015	17,837
Baker Petrolite Corp., Barnsdall, Osage	894,500	0	3,200	0	0	0	897,700	0	0
Conoco Inc. - Ponca City Refy., Ponca City, Kay	600,916	10,586	0	0	0	11,633	623,135	14	112
TPI Petroleum Inc., Ardmore, Carter	222,988	220,543	0	0	0	0	443,531	0	86
Terra Nitrogen Corp. Woodward Complex, Woodward, Woodward	380,865	43,550	0	0	0	0	424,415	0	0
Fort James Operating Co., Muskogee, Muskogee	334,571	9,620	0	0	0	13,202	357,393	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Safety-Kleen (Lone & Grassy Mountain) Inc.-Lone Mnt. Fac., Waynoka, Major	1,205	0	0	0	6,264,394	0	6,265,599	0	1,781
Perma-Fix Treatment Services, Tulsa, Tulsa	0	0	2,513,899	0	0	0	2,513,899	9,980	4,175
Grand River Dam Authority Coal-Fired Complex, Chouteau, Mayes	209,255	805	0	0	0	1,743,000	1,953,060	0	0
Northeastern Station, Oologah, Rogers	302,111	7,280	0	0	0	389,287	698,678	0	0
Muskogee Generating Station, Muskogee, Muskogee	332,649	7,984	0	0	0	6,053	346,686	692,125	0
Sooner Generating Station, Red Rock, Noble	256,094	499	0	0	0	34,460	291,053	170,420	0
Western Farmers Electric Coop, Hugo, Choctaw	262,712	0	0	0	0	7,382	270,094	0	0
AES Shady Point Generation Plant, Panama, Le Flore	150,459	0	0	0	0	0	150,459	208,000	484,280
Turpin Refined Prods. Terminal, Turpin, Beaver	16,865	0	0	0	0	0	16,865	0	0
Conoco Inc. - Glenpool Prods. Terminal, Jenks, Tulsa	10,498	0	0	0	0	0	10,498	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.





# 1999 Toxics Release Inventory

## OKLAHOMA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Terra Nitrogen Ltd. Partnership, Claremore, Rogers	2,200,000	56,500	0	0	133,000	0	3,181,190	5,570,690	456
Weyerhaeuser Co., Valliant, Mc Curtain	0	0	0	0	4,624,007	0	2,967,582	7,591,589	0
Protein Techs. Intl. Inc., Pryor, Mayes	0	0	0	0	16,812,776	0	2,409,059	19,221,835	0
Farmland Inds. Inc., Enid, Garfield	2,153,000	35,000	0	0	813,600	0	2,217,741	5,219,341	0
GM SCG - Oklahoma City Assembly, Oklahoma City, Oklahoma	0	272,060	0	50,500	63,650	28,471	1,059,000	1,473,681	0
Baker Petrolite Corp., Barnsdall, Osage	32,497,000	0	0	100	0	0	870,500	33,367,600	24,000
Conoco Inc. - Ponca City Refy., Ponca City, Kay	0	47,251	0	0	1,494,486	1,019	623,138	2,165,894	0
Zinc Corp. of America, Bartlesville, Washington	0	0	0	0	0	0	535,603	535,603	111
Advance Food Co., Enid, Garfield	0	0	0	0	500,000	0	500,000	1,000,000	1
TPI Petroleum Inc., Ardmore, Carter	197,865	0	0	0	4,814,314	17,205	443,531	5,472,915	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Safety-Kleen (Lone & Grassy Mountain) Inc.-Lone Mnt. Fac., Waynoka, Major	0	0	0	0	137,464	1,957	6,267,380	6,406,801	0
Perma-Fix Treatment Services, Tulsa, Tulsa	0	0	0	0	2,575,975	4,145	2,586,703	5,166,823	0
Grand River Dam Authority Coal-Fired Complex, Chouteau, Mayes	0	0	0	0	1,080,000	0	1,951,000	3,031,000	8
Muskogee Generating Station, Muskogee, Muskogee	0	0	0	0	400,000	0	1,033,800	1,433,800	0
AES Shady Point Generation Plant, Panama, Le Flore	0	0	0	0	0	0	841,000	841,000	0
Northeastern Station, Oologah, Rogers	0	0	0	0	728,900	0	697,400	1,426,300	0
Sooner Generating Station, Red Rock, Noble	0	0	0	0	290,000	0	457,600	747,600	0
Western Farmers Electric Coop, Hugo, Choctaw	0	0	0	0	0	0	269,094	269,094	0
Turpin Refined Prods. Terminal, Turpin, Beaver	0	0	0	0	26,168	0	15,634	41,802	0
Conoco Inc. - Glenpool Prods. Terminal, Jenks, Tulsa	0	0	0	0	0	16	10,498	10,514	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## OREGON

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	20,552,060	45,865,727	66,417,787
Air Emissions	16,789,945	253,373	17,043,318
Surface Water Discharges	3,282,352	60	3,282,412
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	5	35,877,473	35,877,478
Other On-site Land Releases	479,758	9,734,821	10,214,579
Off-site Releases (Transfers Off-site to Disposal)*	1,259,189	18,780	1,277,969
<b>Total On- and Off-site Releases</b>	<b>21,811,249</b>	<b>45,884,507</b>	<b>67,695,756</b>
Recycled On-site	24,552,174	118,500	24,670,674
Recycled Off-site	18,762,619	347,452	19,110,071
Energy Recovery On-site	11,258,882	0	11,258,882
Energy Recovery Off-site	2,575,095	5,450	2,580,545
Treated On-site	140,021,069	69,423	140,090,492
Treated Off-site**	7,401,006	1,205,098	8,606,104
Quantity Released On- and Off-site***	32,276,873	45,413,373	77,690,246
<b>Total Production-related Waste Managed</b>	<b>236,847,718</b>	<b>47,159,296</b>	<b>284,007,014</b>
<b>Total Non-production-related Waste Managed</b>	<b>34,813</b>	<b>290</b>	<b>35,103</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	18,712,158	304,120	19,016,278
Energy Recovery	2,320,985	6,782	2,327,767
Treatment	885,860	1,090,307	1,976,167
Publicly Owned Treatment Works (POTWs)	8,392,343	3,481	8,395,824
Metals and Metal Compounds*	64,551	0	64,551
Non-metal TRI Chemicals**	8,327,792	3,481	8,331,273
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	10,365,603	18,791	10,384,394
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>40,676,949</b>	<b>1,423,481</b>	<b>42,100,430</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

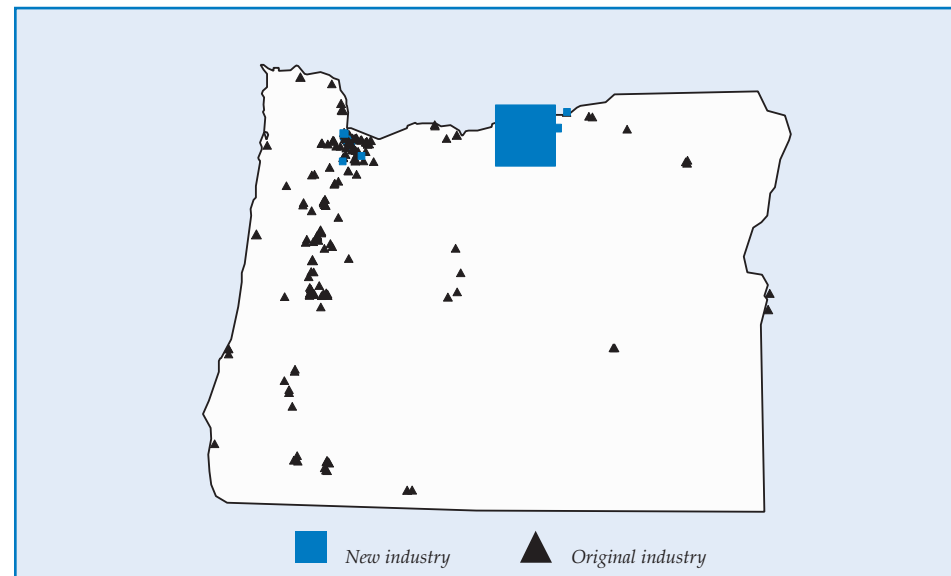
Bob Albers  
(503) 378-3473, ext. 262  
Fax: (503) 373-1825  
E-mail: Bob.ALBERS@state.or.us

#### EPA Regional Contact:

Christina Colt  
(206) 553-4016  
Fax: (206) 553-8509  
E-mail: colt.christina@epa.gov

#### To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Oregon. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	3,316,154
Square Miles	96,003
Total Facilities	258
Total Forms	850
Form As	135

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	31	22	28
Pounds	21,811,249	45,884,507	67,695,756
<b>National Rank for Total On-site Releases**</b>			
Rank	28	22	26
Pounds	20,552,060	45,865,727	66,417,787
<b>National Rank for Total Releases within State***</b>			
Rank	29	22	26
Pounds	23,565,392	46,004,411	69,569,803
<b>National Rank for Production-related Waste Managed</b>			
Rank	28	28	32
Pounds	236,847,718	47,159,296	284,007,014

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## OREGON

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Zinc compounds	51,484	16,008	0	3,893	7,355,946	7,427,331	2,551	190,151	7,169,537
67-56-1	Methanol	7,147,507	51,425	0	33,523	8,672	7,241,127	1,067	8,422	250
--	Nitrate compounds	0	3,027,866	0	255	610	3,028,731	334,024	610	0
--	Manganese compounds	15,994	92,680	0	318,629	1,611,240	2,038,543	8,322	237,982	1,373,360
7664-41-7	Ammonia	1,793,575	49,096	0	69,628	10,101	1,922,400	10,500	9,851	250
100-42-5	Styrene	1,154,367	0	0	0	281	1,154,648	0	281	0
78-93-3	Methyl ethyl ketone	1,133,781	1,850	0	750	452	1,136,833	689	72	380
50-00-0	Formaldehyde	894,028	6,905	0	50	6,580	907,563	1,108	6,580	0
--	Lead compounds	3,533	568	0	0	782,873	786,974	986	47,176	735,736
463-58-1	Carbonyl sulfide	723,449	0	0	0	0	723,449	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
1344-28-1	Aluminum oxide (fibrous forms)	0	0	0	25,822,325	0	25,822,325	0	0	0
1332-21-4	Asbestos (friable)	0	0	0	8,157,587	0	8,157,587	0	0	0
1336-36-3	Polychlorinated biphenyls (PCBs)	0	0	0	4,250,781	0	4,250,781	0	0	0
7429-90-5	Aluminum (fume or dust)	0	0	0	3,175,130	0	3,175,130	0	0	0
--	Barium compounds	8,505	0	0	688,978	0	697,483	0	0	0
71-43-2	Benzene	9,744	15	0	477,445	0	487,204	0	4	0
8001-58-9	Creosote	0	0	0	270,423	0	270,423	0	0	0
7439-92-1	Lead	0	0	0	231,824	117	231,941	2,045	0	117
--	Copper compounds	295	0	0	222,839	1,239	224,373	74,085	0	1,239
7440-39-3	Barium	0	0	0	187,408	2,711	190,119	0	0	2,711

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## OREGON

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Weyerhaeuser Co., Springfield, Lane	1,992,505	46,785	0	0	0	0	2,039,290	3,375	0
Wah Chang Albany, Albany, Linn	615,300	1,004,520	0	0	0	0	1,619,820	85,000	8,400
Willamette Inds. Inc. Albany Paper Mill, Albany, Linn	1,245,557	43,498	0	0	0	5,281	1,294,336	10,800	0
Eastman Kodak Co., White City, Jackson	1,104,400	1,800	0	0	0	1,000	1,107,200	9	554
Pope & Talbot Inc. Halsey Pulp Mill, Halsey, Linn	1,048,450	24,220	0	0	0	0	1,072,670	4,675	0
Wacker Siltronic Corp., Portland, Multnomah	4,945	1,035,602	0	0	0	0	1,040,547	0	0
Georgia-Pacific West Inc., Toledo, Lincoln	873,551	41,444	0	0	0	24,300	939,295	0	0
Boise Cascade Corp., Saint Helens, Columbia	866,828	0	0	0	0	0	866,828	67,503	0
Wah Chang-Oremet Facility, Albany, Linn	23,350	640,000	0	0	0	0	663,350	0	0
Fort James Operating Co. - Wauna Mill, Clatskanie, Clatsop	490,049	43,767	0	0	0	77,003	610,819	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Chemical Waste Management of the Northwest Inc., Arlington, Gilliam	752	0	0	0	35,877,473	9,152,811	45,031,036	0	9,082
Boardman Plant, Boardman, Morrow	162,530	0	0	0	0	582,005	744,535	0	0
Tosco Portland Terminal, Portland, Multnomah	27,290	35	0	0	0	0	27,325	0	0
Arco Prods. Co. Portland Terminal, Portland, Multnomah	17,264	5	0	0	0	0	17,269	0	0
Mobil Oil Portland Terminal, Portland, Multnomah	12,082	0	0	0	0	0	12,082	0	0
Chevron Prods. Co. Willbridge Terminal, Portland, Multnomah	9,251	20	0	0	0	0	9,271	25	0
Van Waters & Rogers Inc., Portland, Multnomah	7,224	0	0	0	0	0	7,224	0	0
Chemcentral/Portland, Portland, Multnomah	5,850	0	0	0	0	0	5,850	0	0
Equilon Portland Terminal, Portland, Multnomah	4,500	0	0	0	0	0	4,500	0	0
Great Western Chemical Co. - Portland, Portland, Multnomah	3,020	0	0	0	0	0	3,020	9,684	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## OREGON

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Cascade Steel Rolling Mills, Mc Minnville, Yamhill	0	170,034	0	0	0	0	6,985,881	7,155,915	0
Oregon Steel Mills Inc., Portland, Multnomah	0	0	0	0	0	0	2,414,800	2,414,800	0
Weyerhaeuser Co., Springfield, Lane	0	0	3,400,000	53	2,721,000	0	2,045,010	8,166,063	0
Wah Chang Albany, Albany, Linn	14,340,000	0	0	0	1,370,000	79,430	1,631,200	17,420,630	0
Willamette Inds. Inc. Albany Paper Mill, Albany, Linn	0	0	461,000	0	2,420,010	0	1,273,807	4,154,817	0
Eastman Kodak Co., White City, Jackson	1,826,100	36,360	1,551,500	276,200	2,881,736	91,500	1,107,309	7,770,705	4,900
Wacker Siltronic Corp., Portland, Multnomah	0	0	0	0	1,617,500	113,500	1,094,914	2,825,914	0
Pope & Talbot Inc. Halsey Pulp Mill, Halsey, Linn	0	0	238,000	0	4,915,320	4,593	1,069,140	6,227,053	7
Georgia-Pacific West Inc., Toledo, Lincoln	0	0	0	0	1,114,600	0	939,700	2,054,300	0
Boise Cascade Corp., Saint Helens, Columbia	0	0	848,682	0	0	3,887,321	866,807	5,602,810	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Chemical Waste Management of the Northwest Inc., Arlington, Gilliam	0	0	0	0	24,334	1,202,564	44,572,376	45,799,274	0
Boardman Plant, Boardman, Morrow	0	0	0	0	0	0	744,510	744,510	0
Tosco Portland Terminal, Portland, Multnomah	118,500	249,940	0	470	2,010	470	25,530	396,920	0
Arco Prods. Co. Portland Terminal, Portland, Multnomah	0	0	0	0	0	0	17,269	17,269	0
Mobil Oil Portland Terminal, Portland, Multnomah	0	0	0	0	0	0	12,082	12,082	0
Great Western Chemical Co. - Portland, Portland, Multnomah	0	0	0	1,808	3,077	690	11,021	16,596	0
Chevron Prods. Co. Willbridge Terminal, Portland, Multnomah	0	0	0	0	0	1,022	9,340	10,362	0
Van Waters & Rogers Inc., Portland, Multnomah	0	0	0	0	0	0	7,224	7,224	0
Chemcentral/Portland, Portland, Multnomah	0	0	0	0	0	0	5,000	5,000	290
Equilon Portland Terminal, Portland, Multnomah	0	7	0	0	0	352	3,966	4,325	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## PENNSYLVANIA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	89,572,576	82,106,144	171,678,720
Air Emissions	36,641,899	72,768,754	109,410,653
Surface Water Discharges	48,992,454	63,002	49,055,456
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	107,772	1,614,600	1,722,372
Other On-site Land Releases	3,830,451	7,659,788	11,490,239
Off-site Releases (Transfers Off-site to Disposal)*	53,681,196	10,208,674	63,889,870
<b>Total On- and Off-site Releases</b>	<b>143,253,772</b>	<b>92,314,818</b>	<b>235,568,590</b>
Recycled On-site	350,066,276	78,499	350,144,775
Recycled Off-site	180,352,997	1,566,437	181,919,434
Energy Recovery On-site	51,115,733	0	51,115,733
Energy Recovery Off-site	20,435,839	37,055	20,472,894
Treated On-site	248,978,886	39,557,338	288,536,224
Treated Off-site**	32,735,659	489,160	33,224,819
Quantity Released On- and Off-site***	138,983,952	91,347,113	230,331,065
<b>Total Production-related Waste Managed</b>	<b>1,022,669,342</b>	<b>133,075,602</b>	<b>1,155,744,944</b>
<b>Total Non-production-related Waste Managed</b>	<b>1,336,554</b>	<b>113,357</b>	<b>1,449,911</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	176,980,662	1,566,406	178,547,068
Energy Recovery	20,435,684	44,893	20,480,577
Treatment	13,410,417	71,584	13,482,001
Publicly Owned Treatment Works (POTWs)	8,199,725	413,880	8,613,605
Metals and Metal Compounds*	255,234	1,260	256,494
Non-metal TRI Chemicals**	7,944,491	412,620	8,357,111
Other Off-site Transfers***	7,045	0	7,045
Off-site Transfers to Disposal (not including metals to POTWs)	72,605,321	10,235,537	82,840,858
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>291,638,854</b>	<b>12,332,300</b>	<b>303,971,154</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

Thomas J. Ward, Jr.  
(717) 783-2071

Fax: (717) 783-5099

E-mail: pennsafe@dlr.state.pa.us

#### EPA Regional Contact:

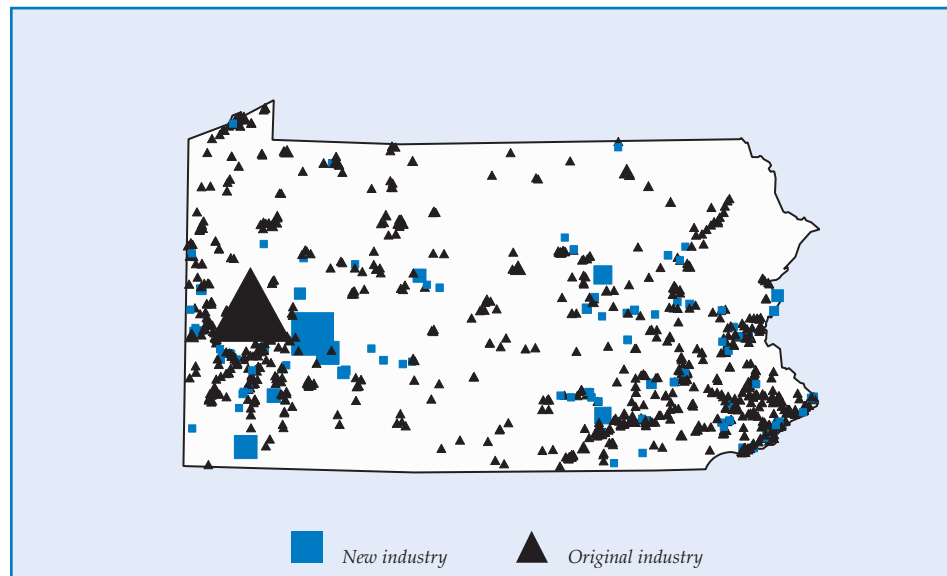
Bill Reilly  
(215) 814-2072

Fax: (215) 814-3114

E-mail: reilly.william@epa.gov

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531

Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Pennsylvania. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	11,994,016
Square Miles	44,820
Total Facilities	1,334
Total Forms	4,813
Form As	741

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	3	7	3
Pounds	143,253,772	92,314,818	235,568,590
<b>National Rank for Total On-site Releases**</b>			
Rank	4	8	8
Pounds	89,572,576	82,106,144	171,678,720
<b>National Rank for Total Releases within State***</b>			
Rank	3	7	8
Pounds	140,647,972	93,967,374	234,615,346
<b>National Rank for Production-related Waste Managed</b>			
Rank	4	9	7
Pounds	1,022,669,342	133,075,602	1,155,744,944

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

# PENNSYLVANIA

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-Site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Nitrate compounds	389	48,550,043	0	30	181,247	48,731,709	47,293	100,775	81,762
--	Zinc compounds	1,466,955	22,952	0	1,579,882	28,539,090	31,608,879	4,097,609	27,038,233	1,502,407
--	Manganese compounds	41,419	21,118	0	791,329	9,363,837	10,217,703	637,266	3,689,644	5,674,193
108-88-3	Toluene	4,662,172	3,412	0	1	26,647	4,692,232	8,076	5,617	21,030
67-56-1	Methanol	3,967,336	5,042	0	2,131	54,356	4,028,865	370	6,713	47,643
--	Lead compounds	34,513	3,426	0	5,146	3,512,177	3,555,262	3,153,368	1,610,298	2,700,945
7647-01-0	Hydrochloric acid	3,197,155	0	0	7	0	3,197,162	1,647,770	0	0
75-09-2	Dichloromethane	3,136,081	5	0	0	497	3,136,583	52	6	491
7664-41-7	Ammonia	2,701,957	186,679	0	11,685	24,338	2,924,659	78	7,778	16,560
--	Chromium compounds	69,666	7,403	0	821,336	1,458,680	2,357,085	169,772	1,266,682	314,810

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

**Note:** Due to an EPA data entry error, one chemical reporting revision for 1999 by a facility, the US Army Letterkenny Depot in Chambersburg, PA, reporting in the original industry sector was not included in this table. At the time of publication, the facility had notified EPA that it anticipated revising off-site transfers to disposal (transferred into the state of New Jersey) for manganese compounds from 5,584,900 pounds to below 500 pounds. Revisions by this facility of two other compounds are included in the State Fact Sheet tables but not included in the tables in the 1999 TRI Public Data Release report.

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-Site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	53,542,873	0	0	5	0	53,542,878	0	0	0
7664-93-9	Sulfuric acid	14,474,478	0	0	0	0	14,474,478	0	0	0
--	Barium compounds	76,874	5,294	0	2,238,113	2,097,661	4,417,942	250,963	2,118,656	5
7664-39-3	Hydrogen fluoride	3,830,161	0	0	0	0	3,830,161	0	0	0
--	Zinc compounds	61,173	4,613	0	1,864,260	1,260,889	3,190,935	243,989	1,244,519	16,370
--	Lead compounds	24,955	414	0	1,075,156	1,057,615	2,158,140	845,185	1,050,850	6,780
--	Manganese compounds	23,747	23,466	0	801,056	1,054,503	1,902,772	15,673	1,054,469	34
--	Chromium compounds	25,907	2,212	0	680,914	722,929	1,431,962	52,396	718,229	4,700
--	Copper compounds	51,016	1,442	0	619,382	711,314	1,383,154	58,276	703,994	7,320
--	Nitrate compounds	0	5,460	0	981,000	35,000	1,021,460	0	35,000	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

# PENNSYLVANIA

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
AK Steel - Butler Works (Rte. 8S), Butler, Butler	159,755	32,048,607	0	0	0	1,811,200	34,019,562	238,148	11,445
AK Steel - Butler Works (Bantam Ave.), Butler, Butler	21,640	4,500,498	0	0	0	0	4,522,138	61,100	497
International Paper/Lock Haven Mill, Lock Haven, Clinton	1,222,905	62,303	0	0	0	1,562,598	2,847,806	0	0
Osram Sylvania Prods. Inc., Towanda, Bradford	80,461	2,743,012	0	0	0	0	2,823,473	535,880	19,436
Carpenter Tech. Corp., Reading, Berks	109,313	2,155,495	0	0	0	0	2,264,808	1,521	30
J&L Specialty Steel Inc., Midland, Beaver	27,347	2,150,472	0	0	0	0	2,177,819	75,558	710,008
International Paper Erie Mill, Erie, Erie	1,843,785	730	0	0	0	0	1,844,515	128,314	0
Foamex L.P., Corry, Erie	1,642,890	0	0	0	0	0	1,642,890	0	0
USS - Clairton Works, Clairton, Allegheny	897,204	674,100	0	0	0	0	1,571,304	4,502	0
P. H. Glatfelter Co., Spring Grove, York	1,435,787	48,006	0	0	0	41,621	1,525,414	4,045	46,910

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Keystone Station, Shelocta, Armstrong	20,030,757	17,435	0	0	0	653,500	20,701,692	0	0
Allegheny Energy Inc. Hatfield Power Station, Masontown, Greene	8,511,375	21	0	0	0	797,700	9,309,096	0	0
EME Homer City Generation L.P., Homer City, Indiana	8,669,369	5,617	0	0	0	529,600	9,204,586	0	0
PP&L -Montour Steam Electric Station, Danville, Montour	6,474,645	0	0	0	0	46,650	6,521,295	0	0
Brunner Island Steam Electric Station, York Haven, York	5,490,722	0	0	0	0	0	5,490,722	0	0
Mill Service Inc., Yukon, Westmoreland	2,940	4,920	0	0	1,614,600	2,100,900	3,723,360	348,300	5
Shawville Station, Shawville, Clearfield	3,182,272	823	0	0	0	289,000	3,472,095	0	0
Portland Station, Portland, Northampton	2,697,727	220	0	0	0	0	2,697,947	29,000	0
Conemaugh Station, New Florence, Indiana	1,611,432	13,164	0	0	0	947,000	2,571,596	0	0
Firstenergy Bruce Mansfield Plant, Shippingport, Beaver	2,531,100	4,101	0	0	0	0	2,535,201	1,563,235	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.





# 1999 Toxics Release Inventory

## PENNSYLVANIA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
AK Steel - Butler Works (Rte. 8S), Butler, Butler	0	7,074,000	0	0	37,901,000	48	34,266,900	79,241,948	0
Zinc Corp. of America Monaca Smelter, Monaca, Beaver	0	0	0	0	0	0	27,243,000	27,243,000	0
USS Mon Valley Works - Edgar Thomson Plant, Braddock, Allegheny	3,015,620	152,660	0	0	0	0	5,664,400	8,832,680	0
AK Steel - Butler Works (Bantam Ave.), Butler, Butler	0	0	0	0	5,400,000	382	4,583,500	9,983,882	0
Osram Sylvania Prods. Inc., Towanda, Bradford	853,795	12,852	0	0	2,594,453	0	3,378,788	6,839,888	0
Zinc Corp. of America, Palmerton, Carbon	6,743	0	0	0	0	0	3,187,950	3,194,693	0
J&L Specialty Steel Inc., Midland, Beaver	17,299,323	5,377,842	0	0	6,041,683	1,022,555	2,887,825	32,629,228	0
International Paper/Lock Haven Mill, Lock Haven, Clinton	0	15,939	0	0	354,396	0	2,843,529	3,213,864	0
Carpenter Tech. Corp., Reading, Berks	276,343	4,380,293	0	0	1,733,520	1	2,266,328	8,656,485	0
International Paper Erie Mill, Erie, Erie	0	0	0	0	1,850,000	3,113,040	1,969,701	6,932,741	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Keystone Station, Shelocta, Armstrong	0	0	0	0	3,010,000	0	20,703,000	23,713,000	0
Allegheny Energy Inc. Hatfield Power Station, Masontown, Greene	0	0	0	0	0	0	9,300,900	9,300,900	0
EME Homer City Generation L.P., Homer City, Indiana	0	0	0	0	3,980,000	0	9,204,000	13,184,000	0
PP&L -Montour Steam Electric Station, Danville, Montour	0	0	0	0	0	0	6,076,624	6,076,624	0
Brunner Island Steam Electric Station, York Haven, York	0	0	0	0	0	0	5,489,977	5,489,977	0
Firstenergy Bruce Mansfield Plant, Shippingport, Beaver	0	0	0	0	0	0	4,099,100	4,099,100	15
Mill Service Inc., Yukon, Westmoreland	0	0	0	0	1,033,000	0	3,723,913	4,756,913	0
Shawville Station, Shawville, Clearfield	0	95	0	0	812,000	0	3,470,500	4,282,595	0
Portland Station, Portland, Northampton	0	0	0	0	357,200	0	2,727,000	3,084,200	0
Cheswick Power Station, Springdale, Allegheny	0	0	0	0	989,940	0	2,583,980	3,573,920	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## PUERTO RICO

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
<b>On-site Releases</b>	5,831,645	11,708,082	17,539,727
Air Emissions	5,757,260	11,531,816	17,289,076
Surface Water Discharges	70,474	10,310	80,784
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	250	0	250
Other On-site Land Releases	3,661	165,956	169,617
Off-site Releases (Transfers Off-site to Disposal)*	492,841	140,137	632,978
<b>Total On- and Off-site Releases</b>	6,324,486	11,848,219	18,172,705
<b>Recycled On-site</b>	13,660,194	1,465,156	15,125,350
Recycled Off-site	10,663,327	1,099,765	11,763,092
Energy Recovery On-site	54,091	0	54,091
Energy Recovery Off-site	18,218,540	11,403,532	29,622,072
Treated On-site	26,556,033	1,763,772	28,319,805
Treated Off-site**	10,539,593	1,643,375	12,182,968
Quantity Released On- and Off-site***	6,255,204	11,785,321	18,040,525
<b>Total Production-related Waste Managed</b>	85,946,982	29,160,921	115,107,903
<b>Total Non-production-related Waste Managed</b>	6,491	158	6,649

### Transfers Off-site for Further Waste Management/Disposal

Recycling	14,842,397	3,269,788	18,112,185
Energy Recovery	18,019,219	8,688,413	26,707,632
Treatment	11,399,077	1,482,247	12,881,324
Publicly Owned Treatment Works (POTWs)	1,930,420	12,554	1,942,974
Metals and Metal Compounds*	2,351	0	2,351
Non-metal TRI Chemicals**	1,928,069	12,554	1,940,623
Other Off-site Transfers***	0	553,773	553,773
Off-site Transfers to Disposal (not including metals to POTWs)	496,484	150,694	647,178
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	46,687,597	14,157,469	60,845,066

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

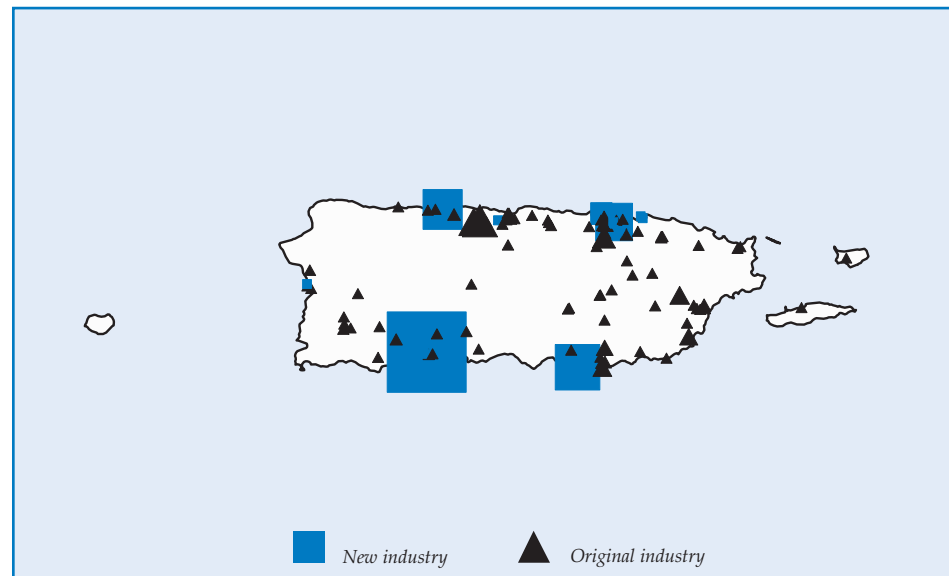
#### State Contact:

Genaro Torres  
(787) 766-2823  
Fax: (787) 766-0150  
E-mail: jcaterr@prtc.net

#### EPA Regional Contact:

Nora Lopez  
(732) 906-6890  
Fax: (732) 321-6788  
E-mail: lopez.nora@epa.gov

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in Puerto Rico. All markers are proportionally-sized to represent the on-site releases at each facility within this territory.

### State/TRI Data

Population	3,889,507
Square Miles	3,427
Total Facilities	153
Total Forms	498
Form As	87

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	42	35	42
Pounds	6,324,486	11,848,219	18,172,705
<b>National Rank for Total On-site Releases**</b>			
Rank	40	34	41
Pounds	5,831,645	11,708,082	17,539,727
<b>National Rank for Total Releases within State***</b>			
Rank	41	35	42
Pounds	6,191,882	11,780,073	17,971,955
<b>National Rank for Production-related Waste Managed</b>			
Rank	37	32	40
Pounds	85,946,982	29,160,921	115,107,903

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## PUERTO RICO

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
75-09-2	Dichloromethane	2,271,514	0	0	0	0	2,271,514	0	0	0
108-88-3	Toluene	880,606	22	0	0	15	880,643	0	15	0
67-56-1	Methanol	612,160	0	0	0	370	612,530	0	0	370
71-36-3	n-Butyl alcohol	414,849	0	0	0	0	414,849	0	0	0
110-54-3	n-Hexane	270,175	37	0	0	0	270,212	0	0	0
78-93-3	Methyl ethyl ketone	208,097	0	0	0	0	208,097	0	0	0
--	Zinc compounds	2,197	380	0	3,624	165,382	171,583	0	159,882	5,500
110-82-7	Cyclohexane	115,124	1	0	0	1	115,126	0	1	0
75-05-8	Acetonitrile	111,727	0	0	0	0	111,727	0	0	0
67-66-3	Chloroform	111,067	0	0	0	0	111,067	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-93-9	Sulfuric acid	9,417,297	0	0	0	0	9,417,297	0	0	0
7664-41-7	Ammonia	1,890,655	0	0	0	0	1,890,655	0	0	0
--	Nickel compounds	134,283	2,571	0	163,750	68,991	369,595	0	68,991	0
7440-66-6	Zinc (fume or dust)	29,323	7,739	0	2,206	0	39,268	0	0	0
71-36-3	n-Butyl alcohol	0	0	0	0	32,446	32,446	0	0	32,446
110-86-1	Pyridine	0	0	0	0	28,974	28,974	0	0	28,974
1634-04-4	Methyl tert-butyl ether	13,925	0	0	0	500	14,425	0	500	0
108-05-4	Vinyl acetate	10,598	0	0	0	0	10,598	0	0	0
--	Copper compounds	0	0	0	0	10,484	10,484	0	0	10,484
110-54-3	n-Hexane	7,227	0	0	0	500	7,727	0	500	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## PUERTO RICO

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Abbott Health Prods. Inc., Barceloneta, Barceloneta	1,267,029	0	0	0	0	0	1,267,029	0	0
Pharmacia & Upjohn Caribe Inc., Arecibo, Arecibo	992,350	0	0	0	0	0	992,350	0	0
Coatings Inc. & Co., Bayamon, Bayamon	630,272	0	0	0	0	0	630,272	0	0
Schering-Plough Prods. L.L.C., Las Piedras, Las Piedras	444,064	0	0	0	0	0	444,064	0	0
Phillips Puerto Rico Core Inc., Guayama, Guayama	406,370	68	0	0	0	0	406,438	447	0
Puerto Rico Sun Oil Co., Yabucoa, Yabucoa	306,752	69,502	0	0	0	0	376,254	0	5
Chemsource Corp., Guayama, Guayama	303,517	0	0	0	0	0	303,517	0	0
Caribbean Petroleum Refining Ltd. Ptnr., Bayamon, Bayamon	191,699	831	0	0	0	0	192,530	0	0
Schering-Plough Prods. L.L.C., Manati, Manati	160,240	0	0	0	0	0	160,240	0	0
Squibb Mfg. Inc., Humacao, Humacao	137,705	0	0	0	0	0	137,705	222	5,500

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Prepa - South Coast Power Plant, Guayanilla, Guayanilla	4,488,564	1,290	0	0	0	131,844	4,621,698	0	0
Prepa - Aguirre Power Generation Complex, Salinas, Salinas	2,314,206	8,048	0	0	0	34,112	2,356,366	0	0
Prepa Cambalache Combustion Turbine Plant, Arecibo, Arecibo	1,997,379	0	0	0	0	0	1,997,379	0	0
Prepa San Juan Steam Power Plant, Puerto Nuevo, San Juan	1,845,329	955	0	0	0	0	1,846,284	38,662	0
Prepa - Palo Seco Power Plant, Levittown, Toa Baja	828,600	17	0	0	0	0	828,617	30,329	0
Esso Cataqo Bulk Terminal, Guaynabo, Guaynabo	17,187	0	0	0	0	0	17,187	1,500	0
Union Carbide Caribe L.L.C. Ponce Terminal, Penuelas, Penuelas	10,598	0	0	0	0	0	10,598	0	0
Safety-Kleen Envirosystems Co. of Puerto Rico Inc., Manati, Manati	9,895	0	0	0	0	0	9,895	0	78,703
Shell Co. (PR) Ltd., Guaynabo, Guaynabo	5,704	0	0	0	0	0	5,704	0	0
Esso LMM Airport Plant, Carolina, San Juan	4,861	0	0	0	0	0	4,861	1,500	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## PUERTO RICO

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Abbott Health Prods. Inc., Barceloneta, Barceloneta	9,144,709	0	0	2,913,384	4,132,092	210,165	1,277,869	17,678,219	0
Pharmacia & Upjohn Caribe Inc., Arecibo, Arecibo	0	3,229,458	0	2,462,849	0	707,710	984,335	7,384,352	0
Coatings Inc. & Co., Bayamon, Bayamon	776,688	0	0	0	862,986	0	630,272	2,269,946	0
Schering-Plough Prods. L.L.C., Las Piedras, Las Piedras	0	785,661	0	146,012	0	0	444,064	1,375,737	0
Phillips Puerto Rico Core Inc., Guayama, Guayama	540,413	0	48,476	133	242,919	0	406,885	1,238,826	2,855
Puerto Rico Sun Oil Co., Yabucoa, Yabucoa	0	0	0	0	5,297,937	0	376,261	5,674,198	0
Chemsource Corp., Guayama, Guayama	248,867	0	0	0	875,468	194,489	266,569	1,585,393	1
Caribbean Petroleum Refining Ltd. Ptnr., Bayamon, Bayamon	19,778	0	0	0	25,272	0	192,263	237,313	0
Viasystems Puerto Rico Inc., San German, San German	150,587	283,216	0	110,880	66,087	118,826	169,653	899,249	0
Schering-Plough Prods. L.L.C., Manati, Manati	0	374,810	0	1,392,250	0	972,590	160,240	2,899,890	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Prepa - South Coast Power Plant, Guayanilla, Guayanilla	0	0	0	0	0	0	4,620,990	4,620,990	0
Prepa - Aguirre Power Generation Complex, Salinas, Salinas	0	0	0	0	0	0	2,355,921	2,355,921	5
Prepa Cambalache Combustion Turbine Plant, Arecibo, Arecibo	0	0	0	0	0	0	1,996,973	1,996,973	0
Prepa San Juan Steam Power Plant, Puerto Nuevo, San Juan	0	0	0	0	0	0	1,884,941	1,884,941	144
Prepa - Palo Seco Power Plant, Levittown, Toa Baja	0	0	0	0	0	0	858,517	858,517	5
Safety-Kleen Envirosystems Co. of Puerto Rico Inc., Manati, Manati	1,465,156	1,099,765	0	11,401,702	1,708,772	1,643,119	20,260	17,338,774	0
Esso Cataño Bulk Terminal, Guaynabo, Guaynabo	0	0	0	0	0	0	17,134	17,134	1
Union Carbide Caribe L.L.C. Ponce Terminal, Penuelas, Penuelas	0	0	0	0	0	0	10,598	10,598	0
Shell Co. (PR) Ltd., Guaynabo, Guaynabo	0	0	0	0	0	0	5,704	5,704	0
Esso LMM Airport Plant, Carolina, San Juan	0	0	0	0	0	0	5,214	5,214	1

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## RHODE ISLAND

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	993,653	78,531	1,072,184
Air Emissions	992,383	78,490	1,070,873
Surface Water Discharges	1,265	41	1,306
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	5	0	5
Off-site Releases (Transfers Off-site to Disposal)*	302,416	16,498	318,914
<b>Total On- and Off-site Releases</b>	<b>1,296,069</b>	<b>95,029</b>	<b>1,391,098</b>
Recycled On-site	6,496,043	120,974	6,617,017
Recycled Off-site	12,007,673	0	12,007,673
Energy Recovery On-site	186,574	0	186,574
Energy Recovery Off-site	818,660	242	818,902
Treated On-site	5,905,324	151,289	6,056,613
Treated Off-site**	719,334	770,805	1,490,139
Quantity Released On- and Off-site***	1,233,975	93,619	1,327,594
<b>Total Production-related Waste Managed</b>	<b>27,367,583</b>	<b>1,136,929</b>	<b>28,504,512</b>
<b>Total Non-production-related Waste Managed</b>	<b>5,689</b>	<b>0</b>	<b>5,689</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	3,859,196	44,220	3,903,416
Energy Recovery	673,588	242	673,830
Treatment	150,942	825,498	976,440
Publicly Owned Treatment Works (POTWs)	513,856	250	514,106
Metals and Metal Compounds*	9,186	0	9,186
Non-metal TRI Chemicals**	504,670	250	504,920
Other Off-site Transfers****	40,781	0	40,781
Off-site Transfers to Disposal (not including metals to POTWs)	310,489	16,498	326,987
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>5,548,852</b>	<b>886,708</b>	<b>6,435,560</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

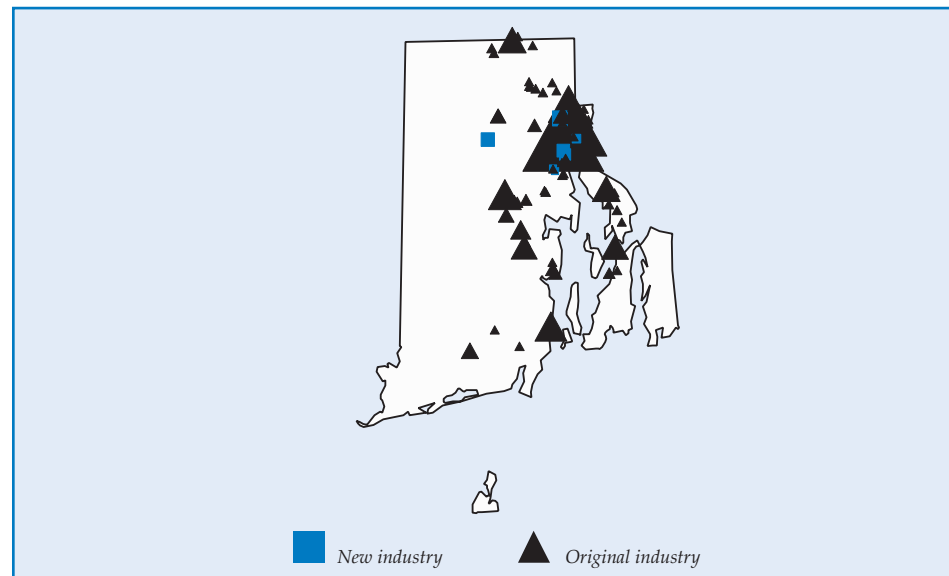
Karen Slattery  
(401) 222-2808, ext. 7030  
Fax: (401) 222-2017  
E-mail: kslattery@dem.state.ri.us

#### EPA Regional Contact:

Dwight Peavey  
(617) 918-1829  
Fax: (617) 918-1810  
E-mail: peavey.dwight@epa.gov

#### To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Rhode Island. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	990,819
Square Miles	1,045
Total Facilities	133
Total Forms	344
Form As	59

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	49	51	50
Pounds	1,296,069	95,029	1,391,098
<b>National Rank for Total On-site Releases**</b>			
Rank	49	52	50
Pounds	993,653	78,531	1,072,184
<b>National Rank for Total Releases within State***</b>			
Rank	49	51	50
Pounds	1,158,441	80,177	1,238,618
<b>National Rank for Production-related Waste Managed</b>			
Rank	45	49	47
Pounds	27,367,583	1,136,929	28,504,512

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## RHODE ISLAND

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
78-93-3	Methyl ethyl ketone	282,759	0	0	0	35,448	318,207	250	0	35,448
108-88-3	Toluene	185,492	0	0	0	32,049	217,541	11,082	0	32,049
7664-41-7	Ammonia	107,753	52	0	0	1,700	109,505	0	0	1,700
100-42-5	Styrene	98,466	0	0	0	0	98,466	250	0	0
--	Glycol ethers	94,369	0	0	0	0	94,369	1,876	0	0
1330-20-7	Xylene (mixed isomers)	69,445	0	0	0	1,580	71,025	219	0	1,580
7440-50-8	Copper	6,575	0	0	5	51,998	58,578	6,222	5,580	46,418
--	Zinc compounds	100	0	0	0	44,963	45,063	5,126	3,886	41,077
67-56-1	Methanol	36,973	662	0	0	3,054	40,689	250	54	3,000
--	Manganese compounds	89	10	0	0	30,046	30,145	35,000	28,146	1,900

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-41-7	Ammonia	41,128	5	0	0	0	41,133	0	0	0
1634-04-4	Methyl tert-butyl ether	25,502	5	0	0	6,439	31,946	250	7	6,432
108-88-3	Toluene	3,136	6	0	0	2,491	5,633	5	3	2,488
110-54-3	n-Hexane	3,244	6	0	0	2,104	5,354	0	2	2,102
1330-20-7	Xylene (mixed isomers)	2,121	9	0	0	2,350	4,480	5	3	2,347
71-43-2	Benzene	1,909	5	0	0	1,010	2,924	250	0	1,010
100-41-4	Ethylbenzene	445	5	0	0	2,103	2,553	5	1	2,102
127-18-4	Tetrachloroethylene	500	0	0	0	0	500	2	0	0
--	Glycol ethers	250	0	0	0	0	250	0	0	0
110-82-7	Cyclohexane	160	0	0	0	0	160	5	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## RHODE ISLAND

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Rexam DSI, Johnston, Providence	178,280	0	0	0	0	0	178,280	0	0
Facile Holdings Inc., Rumford, Providence	99,509	0	0	0	0	0	99,509	0	0
Osram Sylvania Prods. Inc., Central Falls, Providence	77,855	0	0	0	0	0	77,855	276	3,100
Cooley Inc., Pawtucket, Providence	75,815	0	0	0	0	0	75,815	0	14,090
Arkwright Inc., Fiskeville, Kent	59,424	0	0	0	0	0	59,424	0	32,290
Dewal Ind. Inc., Narragansett, Washington	57,120	0	0	0	0	0	57,120	0	0
Tech. Inds. Inc., Woonsocket, Providence	47,233	0	0	0	0	0	47,233	0	0
TPI Composites Inc., Warren, Bristol	46,735	0	0	0	0	0	46,735	0	0
Albin Mfg. Inc., Portsmouth, Newport	44,275	0	0	0	0	0	44,275	0	0
Stanley Fastening Sys. Inc., East Greenwich, Kent	42,394	0	0	0	0	0	42,394	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Pawtucket Power Associates, Pawtucket, Providence	24,020	0	0	0	0	0	24,020	0	0
Mobil Oil East Providence Terminal, East Providence, Providence	19,496	30	0	0	0	0	19,526	0	16,481
Usgen New England Inc., Providence, Providence	17,114	5	0	0	0	0	17,119	0	0
Motiva Providence Terminal, Providence, Providence	12,718	1	0	0	0	0	12,719	17	0
Getty Terminals Corp., East Providence, Providence	4,382	5	0	0	0	0	4,387	0	0
Chem-Pak Inc., Cranston, Providence	510	0	0	0	0	0	510	0	0
John R. Hess & Co. Inc., Cranston, Providence	250	0	0	0	0	0	250	0	0
Oilchem Inc., Lincoln, Providence	0	0	0	0	0	0	0	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.





# 1999 Toxics Release Inventory

## RHODE ISLAND

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Rexam DSI, Johnston, Providence	0	0	0	3,169	1,959	1,959	173,451	180,538	0
Facile Holdings Inc., Rumford, Providence	0	0	0	10,387	0	0	99,509	109,896	0
Cooley Inc., Pawtucket, Providence	0	0	0	0	0	0	89,940	89,940	0
Osram Sylvania Prods. Inc., Central Falls, Providence	0	17,100	0	0	847,800	115,450	78,100	1,058,450	0
Arkwright Inc., Fiskeville, Kent	0	0	0	233,500	1,834,300	1,836	59,440	2,129,076	0
Dewal Ind. Inc., Narragansett, Washington	0	0	0	0	0	9,200	57,000	66,200	0
Tech. Inds. Inc., Woonsocket, Providence	0	0	0	0	0	0	47,233	47,233	0
TPI Composites Inc., Warren, Bristol	0	0	0	0	0	0	46,735	46,735	0
Albin Mfg. Inc., Portsmouth, Newport	0	0	0	0	0	2,160	44,275	46,435	0
Stanley Fastening Sys. Inc., East Greenwich, Kent	0	0	0	9,875	138,359	4,572	42,401	195,207	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Mobil Oil East Providence Terminal, East Providence, Providence	0	0	0	0	0	692	34,808	35,500	0
Pawtucket Power Associates, Pawtucket, Providence	0	0	0	0	0	0	24,020	24,020	0
Usugen New England Inc., Providence, Providence	0	0	0	0	0	90	16,864	16,954	0
Motiva Providence Terminal, Providence, Providence	0	0	0	242	0	1,208	12,738	14,188	0
Getty Terminals Corp., East Providence, Providence	0	0	0	0	151,289	32	4,387	155,708	0
Chem-Pak Inc., Cranston, Providence	120,974	0	0	0	0	768,783	402	890,159	0
John R. Hess & Co. Inc., Cranston, Providence	0	0	0	0	0	0	400	400	0
Oilchem Inc., Lincoln, Providence	0	0	0	0	0	0	0	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## SOUTH CAROLINA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	49,622,767	24,055,836	73,678,603
Air Emissions	42,770,032	15,285,620	58,055,652
Surface Water Discharges	3,432,379	37,979	3,470,358
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	88,133	5,227,609	5,315,742
Other On-site Land Releases	3,332,223	3,504,628	6,836,851
Off-site Releases (Transfers Off-site to Disposal)*	10,107,676	274,618	10,382,294
<b>Total On- and Off-site Releases</b>	<b>59,730,443</b>	<b>24,330,454</b>	<b>84,060,897</b>
Recycled On-site	456,029,197	3,195,088	459,224,285
Recycled Off-site	59,431,431	248,126	59,679,557
Energy Recovery On-site	164,249,561	9,780	164,259,341
Energy Recovery Off-site	19,809,233	14,586,568	34,395,801
Treated On-site	103,518,595	11,569,570	115,088,165
Treated Off-site**	10,708,091	477,730	11,185,821
Quantity Released On- and Off-site***	62,529,069	36,923,188	99,452,257
<b>Total Production-related Waste Managed</b>	<b>876,275,177</b>	<b>67,010,050</b>	<b>943,285,227</b>
<b>Total Non-production-related Waste Managed</b>	<b>280,999,863</b>	<b>23</b>	<b>280,999,886</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	44,726,492	248,129	44,974,621
Energy Recovery	18,853,304	14,984,105	33,837,409
Treatment	3,831,849	505,586	4,337,435
Publicly Owned Treatment Works (POTWs)	6,774,354	535	6,774,889
Metals and Metal Compounds*	161,991	0	161,991
Non-metal TRI Chemicals**	6,612,363	535	6,612,898
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	16,945,175	274,750	17,219,925
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>91,131,174</b>	<b>16,013,105</b>	<b>107,144,279</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

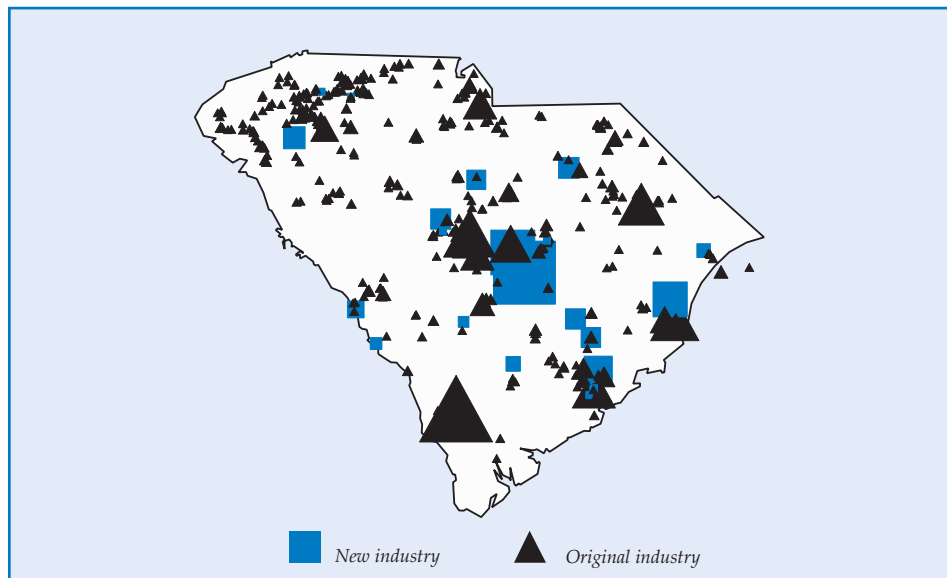
Michael Juras  
(803) 898-4385  
Fax: (803) 898-4117  
E-mail: jurasms@columb31.dhec.state.sc.us

#### EPA Regional Contact:

Ezequiel Velez  
(404) 562-9191  
Fax: (404) 562-9163  
E-mail: velez.ezequiel@epa.gov

#### To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of South Carolina. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	3,885,736
Square Miles	30,111
Total Facilities	500
Total Forms	1,972
Form As	278

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	15	26	23
Pounds	59,730,443	24,330,454	84,060,897
<b>National Rank for Total On-site Releases**</b>			
Rank	16	25	24
Pounds	49,622,767	24,055,836	73,678,603
<b>National Rank for Total Releases within State***</b>			
Rank	16	25	23
Pounds	57,975,113	24,588,541	82,563,654
<b>National Rank for Production-related Waste Managed</b>			
Rank	7	24	9
Pounds	876,275,177	67,010,050	943,285,227

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

# SOUTH CAROLINA

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
67-56-1	Methanol	14,033,699	80,191	0	266,821	10,087	14,390,798	6,394	6,194	3,984
--	Zinc compounds	40,500	46,577	0	267,836	7,742,570	8,097,483	318,140	884,569	6,911,910
108-88-3	Toluene	4,684,407	245	0	1,361	1,677	4,687,690	286,499	281	1,396
7440-47-3	Chromium	10,604	506	0	5	3,956,594	3,967,709	49,097	3,957,305	3,293
7664-41-7	Ammonia	3,008,363	204,786	0	16,996	63,604	3,293,749	1,000	63,533	71
--	Nitrate compounds	756	2,399,243	0	190,562	28	2,590,589	39	28	0
108-95-2	Phenol	1,239,460	1,743	0	1,257,208	1,166	2,499,577	6	218	948
75-09-2	Dichloromethane	2,223,463	781	0	3,217	1,326	2,228,787	232	1,326	0
--	Manganese compounds	19,400	296,999	0	527,984	1,215,715	2,060,098	63,258	478,651	769,927
7647-01-0	Hydrochloric acid	1,682,425	0	0	0	0	1,682,425	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	12,248,163	0	0	0	0	12,248,163	0	0	0
7664-93-9	Sulfuric acid	1,955,309	0	0	32,351	0	1,987,660	0	0	0
--	Barium compounds	18,518	14,201	0	1,255,210	179,023	1,466,952	5	179,061	0
7440-66-6	Zinc (fume or dust)	328	0	0	1,078,568	0	1,078,896	250	0	0
7664-39-3	Hydrogen fluoride	1,001,101	0	0	0	0	1,001,101	0	0	0
7439-92-1	Lead	260	0	0	856,924	0	857,184	49,483	0	0
--	Zinc compounds	3,841	15,522	0	685,087	28,305	732,755	32	28,360	0
8001-58-9	Creosote	218	0	0	716,348	0	716,566	0	0	0
--	Copper compounds	1,455	730	0	589,142	27,940	619,267	7,903	27,940	0
1344-28-1	Aluminum oxide (fibrous forms)	158	0	0	520,967	0	521,125	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

# SOUTH CAROLINA

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	On-site Releases to Land				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
International Paper, Hampton, Hampton	4,849,281	555	0	0	0	0	4,849,836	0	4
Intertape Polymer Group Columbia Div., Columbia, Richland	3,290,025	0	0	0	0	0	3,290,025	1,021	351
International Paper Georgetown Mill, Georgetown, Georgetown	2,925,542	54,929	0	0	0	0	2,980,471	279,600	0
Stone Container Corp., Florence, Florence	2,428,458	62,440	0	0	0	317,212	2,808,110	0	0
Westvaco Corp. Packaging Resources Group (PRG), North Charleston, Charleston	2,533,120	48,175	0	0	0	0	2,581,295	134,123	0
International Paper, Eastover, Richland	1,599,910	348,550	0	0	0	455,900	2,397,930	0	0
Devro-Teepak, Inc., Swansea, Calhoun	1,710,000	174,600	0	0	0	0	1,884,600	0	0
Bowater Inc. Coated Paper Div., Catawba, York	1,434,963	226,106	0	0	0	202,630	1,863,699	0	0
3V Inc., Georgetown, Georgetown	1,509,529	15,318	0	0	0	0	1,524,847	0	0
Nicca USA Inc., Fountain Inn, Laurens	28,300	1,250	0	0	0	1,412,877	1,442,427	63,470	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	On-site Releases to Land				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Safety-Kleen (Pinewood), Pinewood, Sumter	1,589	0	0	0	5,227,609	2	5,229,200	0	0
South Carolina Electric & Gas Co. - Wateree Station, Eastover, Richland	3,354,437	9,934	0	0	0	153,701	3,518,072	0	0
Winyah Generating Station, Georgetown, Georgetown	1,982,116	5	0	0	0	614,797	2,596,918	0	0
South Carolina Electric & Gas Co. Williams Station - Genco, Goose Creek, Berkeley	2,002,425	13,852	0	0	0	0	2,016,277	167,412	0
Duke Energy Lee Steam Station, Pelzer, Anderson	1,280,505	1,730	0	0	0	119,010	1,401,245	10	0
H.B. Robinson Steam Electric Plt., Hartsville, Darlington	1,182,860	0	0	0	0	110,000	1,292,860	0	0
South Carolina Electric & Gas Co. -Mcmeekin Station, Columbia, Lexington	1,184,563	1,100	0	0	0	59,334	1,244,997	0	0
Cross Generating Station, Pineville, Berkeley	461,269	0	0	0	0	776,815	1,238,084	0	0
Jefferies Generating Station, Moncks Corner, Berkeley	1,196,520	0	0	0	0	0	1,196,520	0	0
Kennecott Ridgeway Mining Co., Ridgeway, Fairfield	0	0	0	0	0	1,158,825	1,158,825	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## SOUTH CAROLINA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Nucor Steel, Huger, Berkeley	0	1,745,626	0	0	0	0	7,281,123	9,026,749	0
International Paper, Hampton, Hampton	9,892	0	0	37,458	0	71,207	4,849,285	4,967,842	0
Intertape Polymer Group Columbia Div., Columbia, Richland	13,666,360	0	0	67,308	674,000	773	3,290,025	17,698,466	0
International Paper Georgetown Mill, Georgetown, Georgetown	0	0	0	0	15,383,600	0	3,262,480	18,646,080	0
Stone Container Corp., Florence, Florence	0	0	0	0	4,720,000	0	2,808,110	7,528,110	0
Westvaco Corp. Packaging Resources Group (PRG), North Charleston, Charleston	0	0	8,103,000	10,550	5,146,879	0	2,682,196	15,942,625	1
International Paper, Eastover, Richland	0	0	588,900	0	5,804,580	0	2,381,370	8,774,850	0
Devro-Teepak, Inc., Swansea, Calhoun	0	0	0	0	539,000	0	1,884,600	2,423,600	0
Bowater Inc. Coated Paper Div., Catawba, York	0	0	163,160	0	6,980,390	0	1,863,681	9,007,231	0
3V Inc., Georgetown, Georgetown	68,587,238	0	2,366,692	871,005	730,568	0	1,524,301	74,079,804	7,211

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Winyah Generating Station, Georgetown, Georgetown	0	270	0	0	3,340,693	0	15,197,185	18,538,148	0
Safety-Kleen (Pinewood), Pinewood, Sumter	0	0	0	0	0	16,452	5,213,195	5,229,647	0
South Carolina Electric & Gas Co. - Wateree Station, Eastover, Richland	0	0	0	0	574,965	0	3,518,072	4,093,037	0
South Carolina Electric & Gas Co. Williams Station - Genco, Goose Creek, Berkeley	0	0	0	0	358,250	0	2,183,689	2,541,939	0
Duke Energy Lee Steam Station, Pelzer, Anderson	0	0	0	0	6,200	0	1,402,000	1,408,200	5
H.B. Robinson Steam Electric Plt., Hartsville, Darlington	0	0	0	0	0	0	1,292,000	1,292,000	4
South Carolina Electric & Gas Co. -Mcmeekin Station, Columbia, Lexington	0	0	0	0	335,120	0	1,244,998	1,580,118	0
Cross Generating Station, Pineville, Berkeley	0	946	0	0	4,530,473	0	1,239,029	5,770,448	0
Jefferies Generating Station, Moncks Corner, Berkeley	0	0	0	0	334,746	0	1,196,520	1,531,266	0
Kennecott Ridgeway Mining Co., Ridgeway, Fairfield	0	0	0	0	32,000	0	1,165,000	1,197,000	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## SOUTH DAKOTA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	3,425,438	8,194,954	11,620,392
Air Emissions	2,057,565	329,123	2,386,688
Surface Water Discharges	1,354,662	228,331	1,582,993
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	13,211	7,637,500	7,650,711
Off-site Releases (Transfers Off-site to Disposal)*	138,803	369,782	508,585
<b>Total On- and Off-site Releases</b>	<b>3,564,241</b>	<b>8,564,736</b>	<b>12,128,977</b>
Recycled On-site	262,082	0	262,082
Recycled Off-site	729,930	44,200	774,130
Energy Recovery On-site	1,294,300	0	1,294,300
Energy Recovery Off-site	377,359	0	377,359
Treated On-site	2,013,247	2,302,265	4,315,512
Treated Off-site**	631,408	5	631,413
Quantity Released On- and Off-site***	3,504,320	8,530,930	12,035,250
<b>Total Production-related Waste Managed</b>	<b>8,812,646</b>	<b>10,877,400</b>	<b>19,690,046</b>
<b>Total Non-production-related Waste Managed</b>	<b>3,248</b>	<b>24</b>	<b>3,272</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	817,358	44,209	861,567
Energy Recovery	369,281	0	369,281
Treatment	413,440	0	413,440
Publicly Owned Treatment Works (POTWs)	242,720	0	242,720
Metals and Metal Compounds*	844	0	844
Non-metal TRI Chemicals**	241,876	0	241,876
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	138,059	369,782	507,841
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>1,980,858</b>	<b>413,991</b>	<b>2,394,849</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

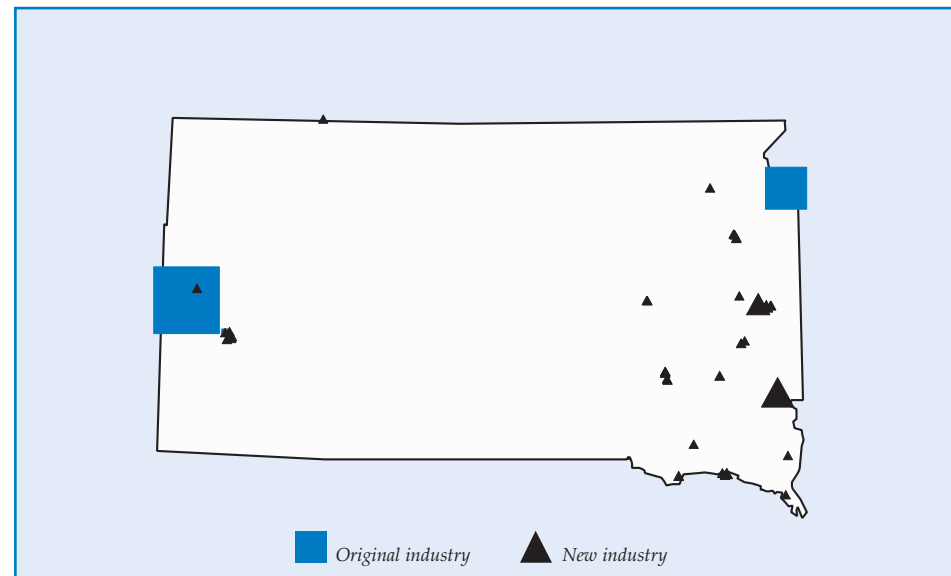
#### State Contact:

Lee Ann Smith  
(605) 773-3296  
Fax: (605) 773-6035  
E-mail: leeann.smith@state.sd.us

#### EPA Regional Contact:

Joyel Dhieux  
(303) 312-6447  
Fax: (303) 312-6044  
E-mail: dhieux.joyel@epa.gov

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of South Dakota. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	733,133
Square Miles	75,896
Total Facilities	75
Total Forms	162
Form As	25

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	45	40	43
Pounds	3,564,241	8,564,736	12,128,977
<b>National Rank for Total On-site Releases**</b>			
Rank	45	40	43
Pounds	3,425,438	8,194,954	11,620,392
<b>National Rank for Total Releases within State***</b>			
Rank	45	40	43
Pounds	3,560,650	8,341,535	11,902,185
<b>National Rank for Production-related Waste Managed</b>			
Rank	48	42	49
Pounds	8,812,646	10,877,400	19,690,046

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## SOUTH DAKOTA

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Nitrate compounds	0	1,354,295	0	0	76	1,354,371	0	76	0
110-54-3	n-Hexane	922,201	0	0	0	0	922,201	0	0	0
1330-20-7	Xylene (mixed isomers)	520,408	0	0	1,473	755	522,636	0	755	0
7664-41-7	Ammonia	127,455	199	0	0	21,772	149,426	0	21,772	0
108-88-3	Toluene	133,015	0	0	6,666	750	140,431	0	750	0
100-42-5	Styrene	135,072	0	0	0	0	135,072	0	0	0
--	Glycol ethers	47,270	0	0	0	0	47,270	0	0	0
110-82-7	Cyclohexane	39,250	0	0	0	0	39,250	0	0	0
78-93-3	Methyl ethyl ketone	37,167	0	0	0	0	37,167	0	0	0
--	Zinc compounds	10	0	0	0	35,115	35,125	0	34,675	440

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Arsenic compounds	248	335	0	4,400,000	0	4,400,583	0	0	0
--	Zinc compounds	1,053	0	0	1,500,000	242,400	1,743,453	0	80,700	161,700
--	Barium compounds	3,250	51	0	820,000	107,671	930,972	0	59,131	48,540
--	Nitrate compounds	0	221,950	0	298,000	5	519,955	0	0	5
--	Copper compounds	121	5	0	346,000	4,271	350,397	0	1,440	2,831
--	Manganese compounds	469	0	0	170,000	15,430	185,899	0	5,310	10,120
7664-39-3	Hydrogen fluoride	85,000	0	0	0	0	85,000	0	0	0
7647-01-0	Hydrochloric acid	70,000	0	0	0	0	70,000	0	0	0
67-56-1	Methanol	57,000	4,350	0	250	0	61,600	0	0	0
7439-96-5	Manganese	1	11	0	59,000	0	59,012	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## SOUTH DAKOTA

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
John Morrell & Co., Sioux Falls, Minnehaha	122,953	1,354,494	0	0	0	0	1,477,447	21,893	0
South Dakota Soybean Processors, Volga, Brookings	902,951	0	0	0	0	0	902,951	0	0
3M Health Care Brookings, Brookings, Brookings	229,805	0	0	0	0	0	229,805	0	0
Alcoa Extrusions Inc., Yankton, Yankton	137,527	0	0	0	0	0	137,527	25	2,995
Raven Inds. Inc., Sioux Falls, Minnehaha	122,344	0	0	0	0	0	122,344	0	0
Starmark Inc., Sioux Falls, Minnehaha	53,725	0	0	0	0	0	53,725	0	0
SMC Corp., Sioux Falls, Minnehaha	51,038	0	0	0	0	0	51,038	0	0
Chicago Rawhide of Springfield, Springfield, Bon Homme	49,510	0	0	0	0	0	49,510	1,145	0
Feterl Mfg. Co., Salem, Mc Cook	43,380	0	0	0	0	0	43,380	0	0
Kolberg-Pioneer Inc., Yankton, Yankton	24,475	0	0	0	0	13,167	37,642	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Homestake Mine, Lead, Lawrence	64,248	202,899	0	0	0	4,413,000	4,680,147	0	0
Big Stone Plant, Big Stone City, Grant	201,552	0	0	0	0	2,520,000	2,721,552	111,850	223,191
Wharf Resources (U.S.A.) Inc., Lead, Lawrence	57,006	25,381	0	0	0	704,500	786,887	0	10
BHPL-Ben French Power Plant, Rapid City, Pennington	6,317	51	0	0	0	0	6,368	34,731	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.





# 1999 Toxics Release Inventory

## SOUTH DAKOTA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
John Morrell & Co., Sioux Falls, Minnehaha	0	0	0	0	212,955	27,235	1,477,827	1,718,017	45
South Dakota Soybean Processors, Volga, Brookings	0	0	0	0	0	0	902,951	902,951	0
3M Health Care Brookings, Brookings, Brookings	0	0	1,294,300	705	434,260	237,650	229,500	2,196,415	0
Alcoa Extrusions Inc., Yankton, Yankton	0	4,300	0	242,400	469,068	2,200	136,017	853,985	0
Raven Inds. Inc., Sioux Falls, Minnehaha	0	0	0	2,100	0	0	122,000	124,100	0
Starmark Inc., Sioux Falls, Minnehaha	0	0	0	12,984	0	0	53,725	66,709	0
SMC Corp., Sioux Falls, Minnehaha	1,000	0	0	0	0	150	51,038	52,188	0
Chicago Rawhide of Springfield, Springfield, Bon Homme	0	13,461	0	14,784	0	0	50,659	78,904	0
Feterl Mfg. Co., Salem, Mc Cook	0	7,069	0	0	0	0	43,380	50,449	0
Gehl Co., Madison, Lake	0	64,985	0	0	0	0	41,176	106,161	1

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Homestake Mine, Lead, Lawrence	0	0	0	0	747,500	0	4,677,770	5,425,270	24
Big Stone Plant, Big Stone City, Grant	0	0	0	0	371,000	0	3,024,000	3,395,000	0
Wharf Resources (U.S.A.) Inc., Lead, Lawrence	0	44,200	0	0	1,183,765	5	788,060	2,016,030	0
BHPL-Ben French Power Plant, Rapid City, Pennington	0	0	0	0	0	0	41,100	41,100	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## TENNESSEE

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	81,554,756	55,519,784	137,074,540
Air Emissions	73,652,645	33,607,284	107,259,929
Surface Water Discharges	2,074,806	720,424	2,795,230
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	136,933	0	136,933
Other On-site Land Releases	5,690,372	21,192,076	26,882,448
Off-site Releases (Transfers Off-site to Disposal)*	6,916,131	320,356	7,236,487
<b>Total On- and Off-site Releases</b>	<b>88,470,887</b>	<b>55,840,140</b>	<b>144,311,027</b>
Recycled On-site	186,892,360	9,638,057	196,530,417
Recycled Off-site	69,347,509	905,556	70,253,065
Energy Recovery On-site	70,758,123	134,378	70,892,501
Energy Recovery Off-site	5,579,717	3,591,841	9,171,558
Treated On-site	80,882,672	25,583,396	106,466,068
Treated Off-site**	6,660,518	51,697	6,712,215
Quantity Released On- and Off-site***	95,458,734	55,777,641	151,236,375
<b>Total Production-related Waste Managed</b>	<b>515,579,633</b>	<b>95,682,566</b>	<b>611,262,199</b>
<b>Total Non-production-related Waste Managed</b>	<b>114,475</b>	<b>251</b>	<b>114,726</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	79,477,219	906,606	80,383,825
Energy Recovery	5,739,458	3,590,272	9,329,730
Treatment	2,116,923	18,977	2,135,900
Publicly Owned Treatment Works (POTWs)	4,700,518	57,935	4,758,453
Metals and Metal Compounds*	61,966	255	62,221
Non-metal TRI Chemicals**	4,638,552	57,680	4,696,232
Other Off-site Transfers****	250	0	250
Off-site Transfers to Disposal (not including metals to POTWs)	9,971,644	320,968	10,292,612
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>102,006,012</b>	<b>4,894,758</b>	<b>106,900,770</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\*Transfers reported without a valid waste management code.

### For More Information . . .

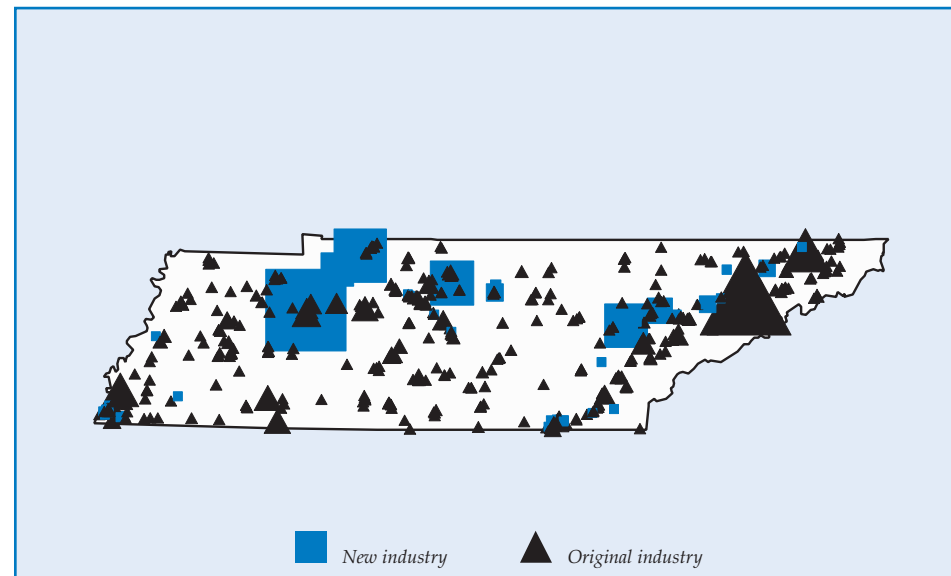
#### State Contact:

Betty Eaves  
(615) 741-2986  
Fax: (615) 242-9165  
E-mail: beaves@tnema.org

#### EPA Regional Contact:

Ezequiel Velez  
(404) 562-9191  
Fax: (404) 562-9163  
E-mail: velez.ezequiel@epa.gov

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Tennessee. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	5,483,535
Square Miles	41,220
Total Facilities	666
Total Forms	2,349
Form As	340

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	7	21	14
Pounds	88,470,887	55,840,140	144,311,027
<b>National Rank for Total On-site Releases**</b>			
Rank	6	19	14
Pounds	81,554,756	55,519,784	137,074,540
<b>National Rank for Total Releases within State***</b>			
Rank	8	20	15
Pounds	87,086,750	55,820,024	142,906,774
<b>National Rank for Production-related Waste Managed</b>			
Rank	15	18	18
Pounds	515,579,633	95,682,566	611,262,199

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## TENNESSEE

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
75-15-0	Carbon disulfide	16,760,506	416	0	250	0	16,761,172	250	0	0
108-88-3	Toluene	9,163,445	199	0	12,623	30,072	9,206,339	320	17,164	13,668
67-56-1	Methanol	7,692,876	9,614	0	3,446	690	7,706,626	0	0	690
100-42-5	Styrene	7,157,806	750	0	105,435	147,064	7,411,055	10,962	147,064	0
7664-41-7	Ammonia	6,264,032	523,128	0	1,274	256	6,788,690	15,122	254	2
--	Manganese compounds	59,869	37,315	0	3,801,594	2,117,855	6,016,633	64,558	1,486,139	631,716
--	Zinc compounds	363,889	43,318	0	619,694	4,815,640	5,842,541	54,856	1,189,386	3,626,254
7647-01-0	Hydrochloric acid	3,562,479	0	0	0	0	3,562,479	35,300	0	0
1330-20-7	Xylene (mixed isomers)	3,040,489	185	0	11,728	2,410	3,054,812	0	824	1,586
75-09-2	Dichloromethane	2,824,921	0	0	0	0	2,824,921	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	26,300,178	0	0	0	0	26,300,178	0	0	0
--	Zinc compounds	56,976	29,184	0	13,133,287	71,938	13,291,385	360	67,375	4,563
7664-93-9	Sulfuric acid	5,761,700	0	0	0	0	5,761,700	0	0	0
--	Barium compounds	15,160	48,000	0	3,182,260	117,350	3,362,770	2,101	111,250	6,100
7664-39-3	Hydrogen fluoride	1,341,735	0	0	0	0	1,341,735	12	0	0
--	Manganese compounds	4,763	25,650	0	1,103,152	28,860	1,162,425	0	25,560	3,300
--	Copper compounds	2,815	14,970	0	1,004,498	25,010	1,047,293	0	24,010	1,000
--	Lead compounds	1,902	3,760	0	833,065	13,015	851,742	134	11,405	1,610
--	Chromium compounds	7,925	4,450	0	630,705	23,110	666,190	112	21,505	1,605
--	Nitrate compounds	0	562,057	0	57,409	0	619,466	28	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

# TENNESSEE

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Lenzing Fibers Corp., Lowland, Hamblen	13,701,422	15,818	0	0	0	144,210	13,861,450	0	0
Eastman Chemical Co., Tennessee Operations, Kingsport, Sullivan	5,173,303	236,896	0	0	103,543	783,900	6,297,642	0	8,400
PCS Nitrogen Fertilizer L.P., Millington, Shelby	4,476,065	5,160	0	0	0	0	4,481,225	0	5,800
Chemetal Inc., New Johnsonville, Humphreys	46,172	1,164	0	0	0	2,970,337	3,017,673	0	0
Aguaglass Corp., Adamsville, Mc Nairy	2,805,249	0	0	0	0	0	2,805,249	0	0
Quebecor World, Dickson, Dickson	2,660,623	0	0	0	0	15,700	2,660,623	1,439	0
Packaging Corp. of America, Counce, Hardin	2,564,410	7,472	0	0	0	62,000	2,633,882	0	0
Viskase Corp., Loudon, Loudon	2,219,000	0	0	0	0	0	2,219,000	0	0
Du Pont Johnsonville Plant, New Johnsonville, Humphreys	1,314,881	138,040	0	0	0	497,325	1,950,246	0	0
Aquaglass Performance Plant, Mc Ewen, Humphreys	1,892,157	0	0	0	0	0	1,892,157	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
U.S. TVA Johnsonville Fossil Plant, New Johnsonville, Humphreys	14,165,315	23,005	0	0	0	1,451,850	15,640,170	10,415	0
Pasminco Zinc Inc., Clarksville, Montgomery	185,947	6,349	0	0	0	9,324,951	9,517,247	0	68
U.S. TVA Gallatin Fossil Plant, Gallatin, Sumner	5,922,830	23,350	0	0	0	1,615,300	7,561,480	23,050	0
U.S. TVA Kingston Fossil Plant, Harriman, Roane	5,867,405	51,700	0	0	0	1,518,900	7,438,005	3,860	5
U.S. TVA Cumberland Fossil Plant, Cumberland City, Stewart	2,196,070	574,850	0	0	0	2,452,130	5,223,050	505	22,355
U.S. TVA Bull Run Fossil Plant, Clinton, Anderson	3,184,055	12,400	0	0	0	350,160	3,546,615	218,900	0
Pasminco Zinc Inc. Gordonsville Mine, Gordonsville, Smith	3,184	860	0	0	0	1,790,934	1,794,978	0	0
ASARCO Inc. Young Mine & Mill, Strawberry Plains, Jefferson	3,046	250	0	0	0	1,655,910	1,659,206	0	0
U.S. TVA John Sevier Fossil Plant, Rogersville, Hawkins	1,325,150	8,800	0	0	0	310,500	1,644,450	0	5
U.S. TVA Allen Fossil Plant, Memphis, Shelby	681,930	5,500	0	0	0	296,110	983,540	1,270	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

# TENNESSEE

## Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Lenzing Fibers Corp., Lowland, Hamblen	5,408,000	0	0	0	219,327	0	13,860,500	19,487,827	0
Eastman Chemical Co., Tennessee Operations, Kingsport, Sullivan	550	657,400	5,207,988	1,131,000	19,642,653	19,221	6,300,146	32,958,958	0
PCS Nitrogen Fertilizer L.P., Millington, Shelby	0	0	0	0	500	210,310	4,481,690	4,692,500	13,256
Praxis Inds., Savannah, Hardin	0	999	0	0	0	0	4,217,293	4,218,292	76
Birmingham Steel Memphis SBQ Bar Rod & Wire Div., Memphis, Shelby	0	0	0	0	0	0	3,376,907	3,376,907	0
Chemetal Inc., New Johnsonville, Humphreys	0	0	0	0	0	0	3,017,659	3,017,659	0
Aguaglass Corp., Adamsville, Mc Nairy	0	0	0	14,623	0	0	2,805,249	2,819,872	7,514
Quebecor World, Dickson, Dickson	13,922,759	101,853	0	8,109	0	1,439	2,660,624	16,694,784	0
Packaging Corp. of America, Counce, Hardin	0	0	567,900	0	6,700,804	0	2,627,004	9,895,708	0
Viskase Corp., Loudon, Loudon	0	0	0	0	0	74,000	2,230,000	2,304,000	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

## Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
U.S. TVA Johnsonville Fossil Plant, New Johnsonville, Humphreys	0	0	0	0	1,864,400	0	15,644,020	17,508,420	0
Pasminco Zinc Inc., Clarksville, Montgomery	9,630,780	0	0	0	0	0	9,480,650	19,111,430	8
U.S. TVA Gallatin Fossil Plant, Gallatin, Sumner	0	0	0	0	1,366,000	0	7,573,020	8,939,020	0
U.S. TVA Kingston Fossil Plant, Harriman, Roane	0	103,000	0	0	1,755,000	0	7,431,020	9,289,020	0
U.S. TVA Cumberland Fossil Plant, Cumberland City, Stewart	0	492,000	0	0	17,724,000	0	5,247,720	23,463,720	0
U.S. TVA Bull Run Fossil Plant, Clinton, Anderson	0	0	0	0	607,000	0	3,764,020	4,371,020	0
Pasminco Zinc Inc. Gordonsville Mine, Gordonsville, Smith	0	0	0	0	0	0	1,794,978	1,794,978	0
ASARCO Inc. Young Mine & Mill, Strawberry Plains, Jefferson	0	0	0	0	0	0	1,658,976	1,658,976	0
U.S. TVA John Sevier Fossil Plant, Rogersville, Hawkins	0	0	0	0	971,200	0	1,644,120	2,615,320	0
U.S. TVA Allen Fossil Plant, Memphis, Shelby	0	92,200	0	0	1,119,900	0	986,470	2,198,570	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## TEXAS

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	240,836,668	47,416,507	288,253,175
Air Emissions	102,482,436	8,281,870	110,764,306
Surface Water Discharges	32,416,099	102,682	32,518,781
Underground Injection Class I Wells	86,548,912	4,179,953	90,728,865
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	205,797	6,281,274	6,487,071
Other On-site Land Releases	19,183,424	28,570,728	47,754,152
Off-site Releases (Transfers Off-site to Disposal)*	17,021,430	8,591,526	25,612,956
<b>Total On- and Off-site Releases</b>	<b>257,858,098</b>	<b>56,008,033</b>	<b>313,866,131</b>
Recycled On-site	1,057,277,403	19,003,331	1,076,280,734
Recycled Off-site	134,063,195	5,901,345	139,964,540
Energy Recovery On-site	865,991,370	0	865,991,370
Energy Recovery Off-site	81,620,986	30,073,020	111,694,006
Treated On-site	2,194,073,787	79,424,873	2,273,498,660
Treated Off-site**	75,722,610	10,006,774	85,729,384
Quantity Released On- and Off-site***	264,703,891	52,931,360	317,635,251
<b>Total Production-related Waste Managed</b>	<b>4,673,453,242</b>	<b>197,340,703</b>	<b>4,870,793,945</b>
<b>Total Non-production-related Waste Managed</b>	<b>3,613,370</b>	<b>499,059</b>	<b>4,112,429</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	128,356,572	3,675,853	132,032,425
Energy Recovery	90,739,286	30,092,445	120,831,731
Treatment	38,688,557	2,477,115	41,165,672
Publicly Owned Treatment Works (POTWs)	38,385,503	14,376	38,399,879
Metals and Metal Compounds*	348,054	2,168	350,222
Non-metal TRI Chemicals**	38,037,449	12,208	38,049,657
Other Off-site Transfers***	48,678	0	48,678
Off-site Transfers to Disposal (not including metals to POTWs)	19,333,609	9,400,936	28,734,545
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>315,552,205</b>	<b>45,660,725</b>	<b>361,212,930</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

Kenneth Kidd  
(512) 239-6957

Fax: (512) 239-1515

E-mail: [kkidd@tnrcc.state.tx.us](mailto:kkidd@tnrcc.state.tx.us)

#### EPA Regional Contact:

Warren Layne  
(214) 665-8013

Fax: (214) 665-6762

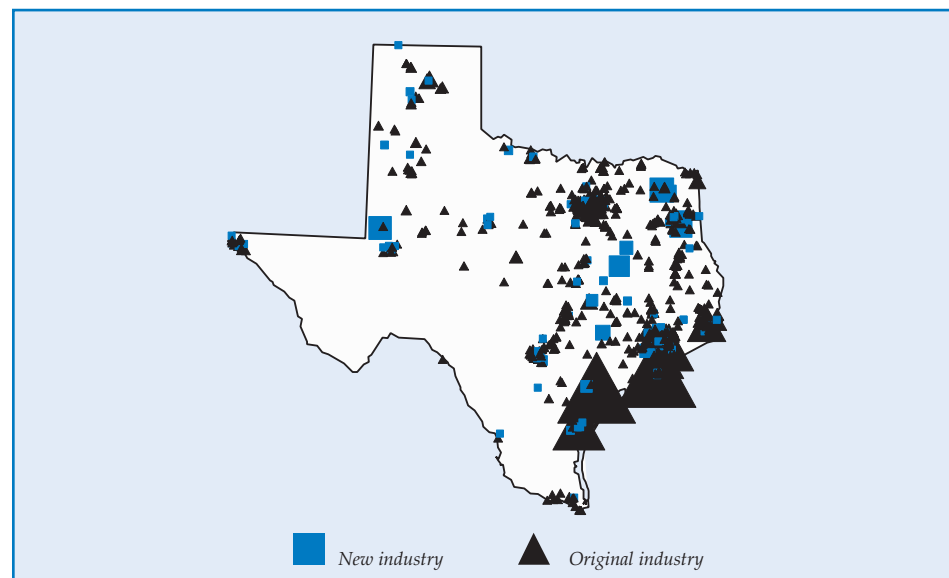
E-mail: [layne.warren@epa.gov](mailto:layne.warren@epa.gov)

Morton E. Wakeland, Jr.  
(214) 665-8116

#### To obtain TRI data use

assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531

Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Texas. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	20,044,141
Square Miles	261,914
Total Facilities	1,369
Total Forms	7,286
Form As	922

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	1	20	5
Pounds	257,858,098	56,008,033	313,866,131
<b>National Rank for Total On-site Releases**</b>			
Rank	1	21	5
Pounds	240,836,668	47,416,507	288,253,175
<b>National Rank for Total Releases within State***</b>			
Rank	1	21	6
Pounds	262,109,843	55,704,096	317,813,939
<b>National Rank for Production-related Waste Managed</b>			
Rank	1	7	1
Pounds	4,673,453,242	197,340,703	4,870,793,945

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## TEXAS

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Nitrate compounds	3,073	31,227,618	8,156,425	335,007	28,033	39,750,156	0	17,635	10,398
7664-41-7	Ammonia	7,559,338	407,191	17,141,732	263,232	472,459	25,843,952	302,011	419,231	90,486
67-56-1	Methanol	12,463,377	54,215	6,079,021	208,622	371,090	19,176,325	620,156	651,512	119,652
74-85-1	Ethylene	15,255,157	0	65,158	1	17	15,320,333	0	17	0
--	Chromium compounds	14,073	6,421	1,854	13,243,349	851,628	14,117,325	61,322	868,417	99,777
7697-37-2	Nitric acid	46,651	16	9,318,926	7,768	259,444	9,632,805	108,592	259,444	0
115-07-1	Propylene	8,144,698	0	136,393	15	0	8,281,106	3	0	0
75-05-8	Acetonitrile	151,341	2,468	7,352,474	39	639,246	8,145,568	18,689	686,053	0
110-54-3	n-Hexane	7,883,362	1,010	2,022	73	2,586	7,889,053	27	2,779	0
1330-20-7	Xylene (mixed isomers)	5,161,217	5,837	49,130	3,103	249,801	5,469,088	58,160	246,193	4,958

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Barium compounds	65,820	39,700	250	17,128,178	3,927,921	21,161,869	2,402	3,909,742	18,179
--	Manganese compounds	57,860	4,857	0	6,836,955	403,364	7,303,036	990	403,195	482
7647-01-0	Hydrochloric acid	3,956,756	5	0	0	0	3,956,761	0	0	0
--	Zinc compounds	11,060	528	0	3,090,397	122,690	3,224,675	7,103	110,560	12,899
7664-39-3	Hydrogen fluoride	2,308,277	0	0	0	24,625	2,332,902	0	24,625	0
67-56-1	Methanol	50,606	0	1,918,781	0	812	1,970,199	929	146,762	0
7439-92-1	Lead	2,287	5	250	1,731,762	53,320	1,787,624	289	4,876	48,943
--	Copper compounds	9,769	6,641	0	1,446,879	129,193	1,592,482	7,968	126,409	10,119
7440-43-9	Cadmium	1,370	0	0	1,226,037	0	1,227,407	0	0	0
7664-93-9	Sulfuric acid	992,221	5	0	0	0	992,226	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

# TEXAS

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
BASF Corp., Freeport, Brazoria	131,261	19,018,048	2,343,600	0	0	0	21,492,909	25,226	4
Du Pont Victoria Plant, Victoria, Victoria	740,395	1,540,964	18,781,673	0	45,450	878	21,109,360	12,740	7,171
BP Chemicals Inc. Green Lake Facility, Port Lavaca, Calhoun	243,395	1,130	13,860,117	0	2,185	0	14,106,827	571	0
Elementis Chromium L.P., Corpus Christi, Nueces	89,550	4,550	0	0	0	13,100,000	13,194,100	431,400	0
Solutia - Chocolate Bayou, Alvin, Brazoria	158,903	10,000	9,451,408	0	23,450	254	9,644,015	0	0
Du Pont Beaumont Plant, Beaumont, Jefferson	320,090	1,621	8,715,610	0	0	0	9,037,321	25	26,550
Sterling Chemicals Inc., Texas City, Galveston	593,387	46,843	8,172,381	0	0	0	8,812,611	3,124	72
BP Amoco Texas City Business Unit, Texas City, Galveston	3,630,351	98,818	2,497,500	0	0	1,196	6,227,865	21,373	0
Rohm & Haas Texas Inc., Deer Park, Harris	428,603	4,498,238	0	0	0	0	4,926,841	41,770	11
Lyondell Chemical Co., Channelview, Harris	683,662	207	4,006,210	0	0	0	4,690,079	286,269	7,466

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Monticello Steam Electric Station & Lignite Mine, Mount Pleasant, Titus	973,631	362	0	0	0	5,468,844	6,442,837	0	0
Waste Control Specialists L.L.C., Andrews, Andrews	6,660	0	0	0	5,955,621	0	5,962,281	0	0
Martin Lake Steam Electric Station & Lignite, Tatum, Rusk	302,531	260	0	0	0	5,573,596	5,876,387	3	0
Limestone Electric Generating Station, Jewett, Limestone	271,851	49	0	0	0	4,837,000	5,108,900	0	0
Disposal Systems Inc., Deer Park, Harris	839	0	4,162,525	0	0	0	4,163,364	126,178	0
L.C.R.A. Fayette Power Project, La Grange, Fayette	2,424,630	359	0	0	0	498,000	2,922,989	1,240	0
Welsh Power Plant, Pittsburg, Camp	439,020	34,265	0	0	0	2,034,690	2,507,975	0	0
W.A. Parish Electric Generating Station, Thompson, Fort Bend	555,161	4,500	0	0	0	1,847,300	2,406,961	0	0
Big Brown Steam Electric Station & Lignite Mine, Fairfield, Freestone	147,311	0	0	0	0	2,165,239	2,312,550	0	0
H.W. Pirkey Power Plant, Hallsville, Harrison	111,107	13,670	0	0	0	1,765,850	1,890,627	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.





# 1999 Toxics Release Inventory

## TEXAS

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
BASF Corp., Freeport, Brazoria	0	136,900	18,607,800	58,554	65,476,500	127	21,497,636	105,777,517	0
Du Pont Victoria Plant, Victoria, Victoria	0	0	25,844,530	0	42,299,864	713,083	21,129,271	89,986,748	5
BP Chemicals Inc. Green Lake Facility, Port Lavaca, Calhoun	0	0	54,531,500	0	1,679,077	29,523	14,106,840	70,346,940	301
Elementis Chromium L.P., Corpus Christi, Nueces	0	0	0	0	0	412,000	13,590,000	14,002,000	0
Solutia - Chocolate Bayou, Alvin, Brazoria	770,000	0	0	0	15,413,200	0	12,657,773	28,840,973	0
Du Pont Beaumont Plant, Beaumont, Jefferson	7,956,850	0	14,275,834	354,442	12,779,168	4,303,650	9,037,281	48,707,225	45,847
Sterling Chemicals Inc., Texas City, Galveston	130,000	1,848	46,019,468	3	2,273,168	82,810	8,815,561	57,322,858	0
BP Amoco Texas City Business Unit, Texas City, Galveston	2,358,400	84,120	0	0	5,015,000	8,810	6,304,783	13,771,113	0
Rohm & Haas Texas Inc., Deer Park, Harris	0	0	57,142,718	140,709	84,682,225	142,579	4,968,441	147,076,672	1,745
Lyondell Chemical Co., Channelview, Harris	13,045,383	24,784	43,702,373	1,154,610	17,115,006	279,946	4,767,916	80,090,018	7

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Monticello Steam Electric Station & Lignite Mine, Mount Pleasant, Titus	0	0	0	0	4,931,916	0	6,442,837	11,374,753	0
Waste Control Specialists L.L.C., Andrews, Andrews	0	0	0	0	0	0	5,962,175	5,962,175	0
Martin Lake Steam Electric Station & Lignite, Tatum, Rusk	0	0	0	0	558,628	0	5,876,390	6,435,018	0
Limestone Electric Generating Station, Jewett, Limestone	0	0	0	0	1,290,000	0	5,102,020	6,392,020	0
Disposal Systems Inc., Deer Park, Harris	1,025,707	0	0	4,508,346	6,959,210	5,933,503	4,163,259	22,590,025	0
L.C.R.A. Fayette Power Project, La Grange, Fayette	0	0	0	0	892,000	0	2,924,101	3,816,101	0
Welsh Power Plant, Pittsburg, Camp	0	0	0	0	746,500	0	2,579,400	3,325,900	0
W.A. Parish Electric Generating Station, Thompson, Fort Bend	0	0	0	0	1,170,000	0	2,396,000	3,566,000	0
Big Brown Steam Electric Station & Lignite Mine, Fairfield, Freestone	0	0	0	0	110,040	0	2,312,550	2,422,590	0
Southwestern Public Service Co. Harrington Station, Amarillo, Potter	0	0	0	0	0	0	2,233,000	2,233,000	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## UTAH

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	82,379,463	1,078,706,655	1,161,086,118
Air Emissions	50,620,528	2,406,951	53,027,479
Surface Water Discharges	1,037,793	15,550	1,053,343
Underground Injection Class I Wells	3,600	0	3,600
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	10,492	15,824,327	15,834,819
Other On-site Land Releases	30,707,050	1,060,459,827	1,091,166,877
Off-site Releases (Transfers Off-site to Disposal)*	406,157	294,694	700,851
<b>Total On- and Off-site Releases</b>	<b>82,785,620</b>	<b>1,079,001,349</b>	<b>1,161,786,969</b>
Recycled On-site	2,126,718	6,039,500	8,166,218
Recycled Off-site	2,807,088	0	2,807,088
Energy Recovery On-site	2,236,541	0	2,236,541
Energy Recovery Off-site	33,548	57,988	91,536
Treated On-site	236,048,188	31,234,934	267,283,122
Treated Off-site**	1,294,689	55,122	1,349,811
Quantity Released On- and Off-site***	82,256,052	578,714,973	660,971,025
<b>Total Production-related Waste Managed</b>	<b>326,802,824</b>	<b>616,102,517</b>	<b>942,905,341</b>
<b>Total Non-production-related Waste Managed</b>	<b>6,803,887</b>	<b>505,165,004</b>	<b>511,968,891</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	2,863,947	18	2,863,965
Energy Recovery	23,419	58,089	81,508
Treatment	581,728	82,803	664,531
Publicly Owned Treatment Works (POTWs)	881,600	0	881,600
Metals and Metal Compounds*	6,403	0	6,403
Non-metal TRI Chemicals**	875,197	0	875,197
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	6,436,218	428,390	6,864,608
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>10,786,912</b>	<b>569,300</b>	<b>11,356,212</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

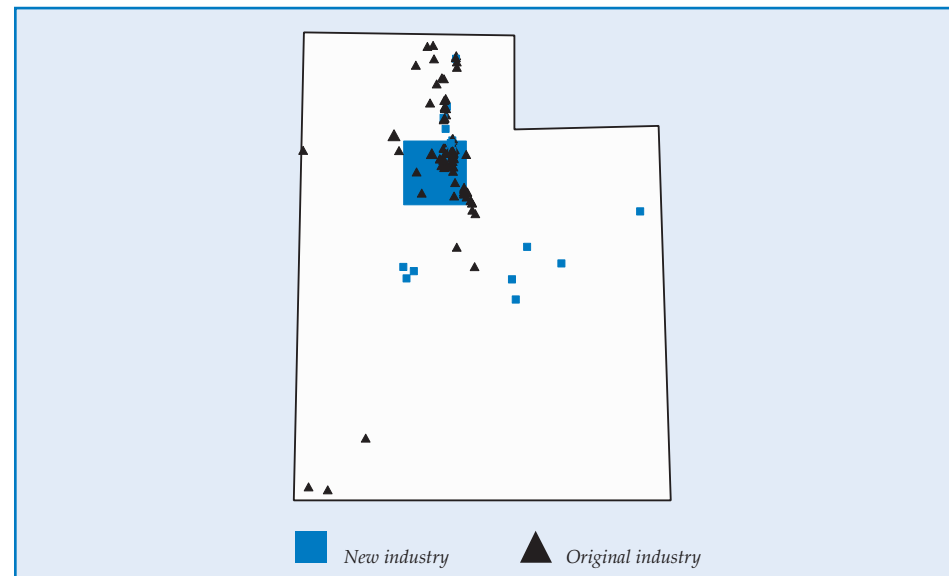
#### State Contact:

Neil Taylor  
(801) 536-4102  
Fax: (801) 536-4242  
E-mail: [ntaylor@deq.state.ut.us](mailto:ntaylor@deq.state.ut.us)

#### EPA Regional Contact:

Joyel Dhieux  
(303) 312-6447  
Fax: (303) 312-6044  
E-mail: [dhieux.joyel@epa.gov](mailto:dhieux.joyel@epa.gov)

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Utah. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	2,129,836
Square Miles	82,168
Total Facilities	170
Total Forms	697
Form As	86

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	8	2	2
Pounds	82,785,620	1,079,001,349	1,161,786,969
<b>National Rank for Total On-site Releases**</b>			
Rank	5	2	2
Pounds	82,379,463	1,078,706,655	1,161,086,118
<b>National Rank for Total Releases within State***</b>			
Rank	9	2	2
Pounds	85,298,119	1,079,092,446	1,164,390,565
<b>National Rank for Production-related Waste Managed</b>			
Rank	22	3	10
Pounds	326,802,824	616,102,517	942,905,341

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## UTAH

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7782-50-5	Chlorine	45,274,920	0	3,600	10,600	0	45,289,120	0	0	0
--	Copper compounds	154,203	5,700	0	8,300,353	54,316	8,514,572	28,356	127,297	46,865
--	Arsenic compounds	22,750	10,150	0	7,800,005	250	7,833,155	33,271	17,250	250
--	Zinc compounds	15,474	2,413	0	5,788,057	1,848,638	7,654,582	575,755	2,700,075	1,842,864
--	Lead compounds	88,930	763	0	4,700,297	160,088	4,950,078	546,177	269,504	159,948
7647-01-0	Hydrochloric acid	2,786,337	0	0	28,600	0	2,814,937	0	0	0
--	Nitrate compounds	68	1,000,755	0	1,401,369	5	2,402,197	6,494	5	0
--	Manganese compounds	374,248	750	0	340,749	199,069	914,816	132,621	329,912	197,877
--	Nickel compounds	63,814	1,250	0	540,118	3,254	608,436	42,767	6,639	3,254
7664-41-7	Ammonia	112,640	6,753	0	415,250	250	534,893	500	255	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Copper compounds	9,945	1,710	0	696,467,880	9,170	696,488,705	15,470	88,088	1,269
--	Manganese compounds	3,885	260	0	90,304,674	86,630	90,395,449	219	84,530	2,100
--	Chromium compounds	2,351	250	0	81,262,734	18,544	81,283,879	1,115	60,168	1,900
--	Lead compounds	1,145	250	0	73,787,926	12,844	73,802,165	14,374	12,393	456
--	Zinc compounds	4,086	3,810	0	67,130,985	22,390	67,161,271	13,374	20,790	1,600
--	Arsenic compounds	1,275	250	0	42,278,390	424	42,280,339	204	424	0
--	Nickel compounds	1,542	1,600	0	10,270,809	1,274	10,275,225	367	1,091	183
--	Barium compounds	7,463	165	0	4,778,952	122,139	4,908,719	415	108,140	14,000
--	Selenium compounds	8,937	250	0	1,719,154	2,019	1,730,360	0	1,746	273
--	Silver compounds	30	250	0	1,449,480	372	1,450,132	0	372	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

# UTAH

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Magnesium Corp. of America, Rowley, Tooele	47,345,226	0	0	0	0	0	47,345,226	0	0
Kennecott Utah Copper Smelter & Refy., Magna, Salt Lake	218,690	26,445	0	0	0	28,360,825	28,605,960	111,495	2,080
Western Zirconium, Ogden, Weber	149,522	0	0	0	0	1,561,303	1,710,825	0	0
Geneva Steel, Vineyard, Utah	94,567	1,009,155	0	0	0	365,317	1,469,039	0	0
Thiokol Propulsion, Corinne, Box Elder	690,000	0	0	0	0	0	690,000	0	0
Lifetime Prods. Inc., Clearfield, Davis	675,597	0	0	0	0	0	675,597	0	0
Pacific States Cast Iron Pipe Co., Provo, Utah	4,655	0	0	0	0	196,792	201,447	0	0
Gossner Foods Inc. Cheese Plant, Logan, Cache	0	0	0	0	0	149,309	149,309	0	0
U.S. DOD U.S. Air Force Ogden Air Logistics Center, Hill A F B, Davis	113,832	0	0	0	0	0	113,832	109,141	34
B. D. Medical Sys., Sandy, Salt Lake	78,050	0	0	0	0	0	78,050	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Kennecott Utah Copper Mine Concentrators & Power Plant, Copperton, Salt Lake	26,252	15,385	0	0	0	1,020,765,865	1,020,807,502	0	0
Kennecott Barneys Canyon Mining Co., Bingham Canyon, Salt Lake	10,500	0	0	0	0	32,000,000	32,010,500	0	0
Safety Kleen (Lone & Grassy ) Inc. Grassy Mountain Facility, Grantsville, Tooele	672	0	0	0	14,712,053	416,528	15,129,253	18,875	0
Pacificorp Huntington Plant, Huntington, Emery	953,335	0	0	0	0	964,640	1,917,975	60,006	0
Intermountain Power Generating Station, Delta, Millard	132,750	0	0	0	0	1,399,600	1,532,350	0	0
Pacificorp - Hunter Power Plant, Castle Dale, Emery	173,137	0	0	0	0	1,309,833	1,482,970	91,700	20,895
Bonanza Power Plant, Vernal, Uintah	55,930	0	0	0	0	1,400,371	1,456,301	0	0
Brush Wellman Inc. - Mill, Delta, Millard	420,197	0	0	0	0	956,482	1,376,679	0	0
Envirocare of Utah Inc., Grantsville, Tooele	0	0	0	0	1,112,274	252,085	1,364,359	0	0
Sunnyside Cogeneration Associates, Sunnyside, Carbon	323,319	0	0	0	0	838,059	1,161,378	86,120	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## UTAH

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Magnesium Corp. of America, Rowley, Tooele	0	0	0	0	214,000,000	0	47,228,226	261,228,226	0
Kennecott Utah Copper Smelter & Refy., Magna, Salt Lake	0	0	0	0	1,500	0	21,825,160	21,826,660	6,778,300
Nucor Steel - A Div. of Nucor Corp., Plymouth, Box Elder	0	23	0	0	0	0	5,693,714	5,693,737	0
Western Zirconium, Ogden, Weber	150,000	0	0	0	8,892,000	0	1,712,710	10,754,710	67
Geneva Steel, Vineyard, Utah	0	0	0	0	496,010	1,070	1,476,863	1,973,943	0
Lifetime Prods. Inc., Clearfield, Davis	0	136,801	0	0	0	0	675,597	812,398	0
Thiokol Propulsion, Corinne, Box Elder	0	44,000	0	0	300	0	671,000	715,300	0
Parish Chemical Co., Vineyard, Utah	0	0	0	0	0	251,348	266,429	517,777	0
U.S. DOD U.S. Air Force Ogden Air Logistics Center, Hill A F B, Davis	19,700	126,400	0	0	0	28,650	222,900	397,650	34
Pacific States Cast Iron Pipe Co., Provo, Utah	0	0	0	0	0	0	201,447	201,447	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Kennecott Utah Copper Mine Concentrators & Power Plant, Copperton, Salt Lake	0	0	0	0	0	0	520,321,030	520,321,030	505,165,000
Kennecott Barneys Canyon Mining Co., Bingham Canyon, Salt Lake	0	0	0	0	0	0	32,010,000	32,010,000	0
Safety Kleen (Lone & Grassy ) Inc. Grassy Mountain Facility, Grantsville, Tooele	0	0	0	0	33,752	48,163	15,196,291	15,278,206	0
Pacificorp Huntington Plant, Huntington, Emery	0	0	0	0	1,520,000	0	1,969,000	3,489,000	0
Pacificorp - Hunter Power Plant, Castle Dale, Emery	0	0	0	0	5,400,000	0	1,595,000	6,995,000	0
Intermountain Power Generating Station, Delta, Millard	0	0	0	0	4,040,500	10	1,540,000	5,580,510	0
Bonanza Power Plant, Vernal, Uintah	0	0	0	0	0	0	1,456,301	1,456,301	0
Brush Wellman Inc. - Mill, Delta, Millard	6,039,500	0	0	0	197,400	0	1,377,577	7,614,477	0
Envirocare of Utah Inc., Grantsville, Tooele	0	0	0	0	0	0	1,364,358	1,364,358	3
Sunnyside Cogeneration Associates, Sunnyside, Carbon	0	0	0	0	0	0	1,275,419	1,275,419	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## VERMONT

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	405,933	0	405,933
Air Emissions	150,666	0	150,666
Surface Water Discharges	179,767	0	179,767
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	74,490	0	74,490
Other On-site Land Releases	1,010	0	1,010
Off-site Releases (Transfers Off-site to Disposal)*	240,847	0	240,847
<b>Total On- and Off-site Releases</b>	<b>646,780</b>	<b>0</b>	<b>646,780</b>
Recycled On-site	145,062	0	145,062
Recycled Off-site	1,390,069	0	1,390,069
Energy Recovery On-site	0	0	0
Energy Recovery Off-site	9,317	0	9,317
Treated On-site	1,378,272	0	1,378,272
Treated Off-site**	382,312	0	382,312
Quantity Released On- and Off-site***	444,303	0	444,303
<b>Total Production-related Waste Managed</b>	<b>3,749,335</b>	<b>0</b>	<b>3,749,335</b>
<b>Total Non-production-related Waste Managed</b>	<b>3,512</b>		<b>3,512</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	1,305,303	0	1,305,303
Energy Recovery	9,317	0	9,317
Treatment	87,610	0	87,610
Publicly Owned Treatment Works (POTWs)	219,850	0	219,850
Metals and Metal Compounds*	531	0	531
Non-metal TRI Chemicals**	219,319	0	219,319
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	241,426	0	241,426
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>1,863,506</b>	<b>0</b>	<b>1,863,506</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\*Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

Paul Van Hollebeke  
(802) 241-3629

Fax: (802) 241-3273

E-mail: paulv@dec.anr.state.vt.us

#### EPA Regional Contact:

Dwight Peavey

(617) 918-1829

Fax: (617) 918-1810

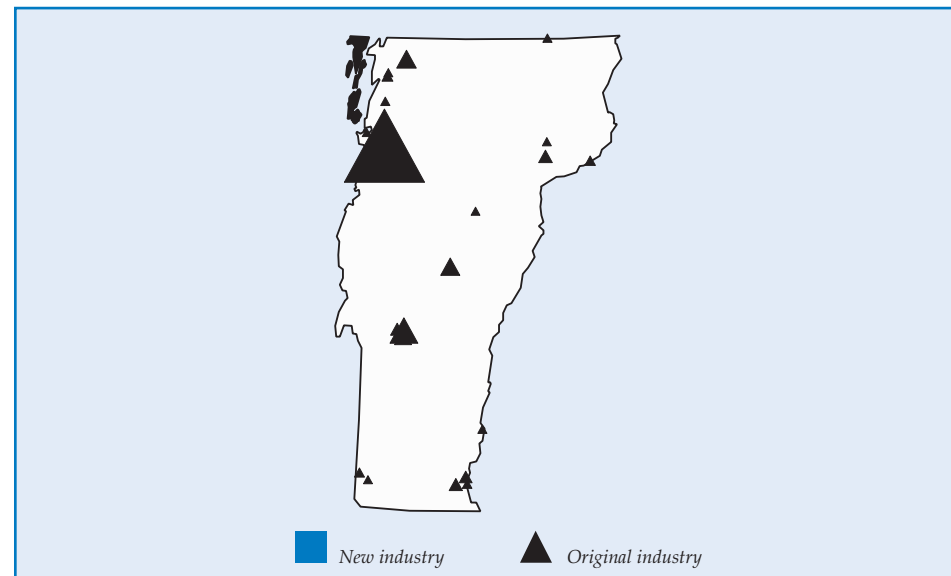
E-mail: peavey.dwight@epa.gov

#### To obtain TRI data use

assistance, call TRI User  
Support Service (TRI-US):

(202) 260-1531

Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Vermont. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	593,740
Square Miles	9,249
Total Facilities	37
Total Forms	79
Form As	11

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	51	--	52
Pounds	646,780	0	646,780
<b>National Rank for Total On-site Releases**</b>			
Rank	51	--	53
Pounds	405,933	0	405,933
<b>National Rank for Total Releases within State***</b>			
Rank	51	--	52
Pounds	522,592	0	522,592
<b>National Rank for Production-related Waste Managed</b>			
Rank	52	--	52
Pounds	3,749,335	0	3,749,335

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## VERMONT

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Nitrate compounds	0	170,664	0	13,160	102,862	286,686	0	65,702	37,160
7439-92-1	Lead	5	11	0	29,770	46,905	76,691	0	250	46,655
7664-41-7	Ammonia	47,708	5,216	0	0	0	52,924	1,600	0	0
--	Zinc compounds	8	0	0	750	40,154	40,912	1,247	750	39,404
7440-02-0	Nickel	10	0	0	14,870	14,885	29,765	0	10	14,875
108-88-3	Toluene	23,695	0	0	0	0	23,695	25,579	0	0
78-93-3	Methyl ethyl ketone	21,163	0	0	0	610	21,773	3,517	0	610
7440-47-3	Chromium	0	0	0	8,140	8,390	16,530	0	260	8,130
--	Manganese compounds	456	3,696	0	0	9,866	14,018	0	0	9,866
100-42-5	Styrene	13,167	0	0	0	0	13,167	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## VERMONT

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	<u>Underground Injection</u>					<u>On-site Releases to Land</u>		Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
IBM Corp., Essex Junction, Chittenden	24,510	175,291	0	0	0	0	199,801	0	16,645
GE Co., Rutland, Rutland	10	0	0	0	52,990	0	53,000	260	53,235
Rock-Tenn Co., Sheldon Springs, Franklin	29,708	116	0	0	0	0	29,824	0	0
Ethan Allen Inc. Randolph Div., Randolph, Orange	28,496	0	0	0	0	0	28,496	0	970
GE Co., North Clarendon, Rutland	1,260	0	0	0	21,500	0	22,760	10	18,195
EHV-Weidmann Inds. Inc., Saint Johnsbury, Caledonia	13,167	0	0	0	0	0	13,167	0	0
G.S. Precision Inc., Brattleboro, Windham	12,124	0	0	0	0	0	12,124	0	0
Rutland Plywood Corp., Rutland, Rutland	11,808	0	0	0	0	0	11,808	0	0
C. E. Bradley Labs. Inc., North Brattleboro, Windham	10,836	0	0	0	0	0	10,836	0	0
Mylan Techs. Inc., Saint Albans, Franklin	5,508	0	0	0	0	0	5,508	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	<u>Underground Injection</u>					<u>On-site Releases to Land</u>		Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.





# 1999 Toxics Release Inventory

## VERMONT

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
IBM Corp., Essex Junction, Chittenden	0	311,300	0	0	704,200	630	213,265	1,229,395	3,500
Fulflex of Vermont Inc., Brattleboro, Windham	0	0	0	0	0	0	39,404	39,404	0
Rock-Tenn Co., Sheldon Springs, Franklin	0	0	0	0	0	0	29,824	29,824	0
Ethan Allen Inc. Randolph Div., Randolph, Orange	0	0	0	0	0	970	28,496	29,466	0
Cabot Creamery Co-Op. Inc., Cabot, Washington	0	0	0	0	0	0	24,000	24,000	0
GE Co., North Clarendon, Rutland	0	77,220	0	0	64,610	36,710	17,143	195,683	0
Simpson Paper Co., Gilman, Essex	0	0	0	0	0	0	14,018	14,018	0
EHV-Weidmann Inds. Inc., Saint Johnsbury, Caledonia	0	0	0	0	0	0	13,167	13,167	0
G.S. Precision Inc., Brattleboro, Windham	0	0	0	0	0	16,378	12,123	28,501	0
Rutland Plywood Corp., Rutland, Rutland	1,286	0	0	0	0	0	11,683	12,969	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## VIRGIN ISLANDS

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	698,320	68,485	766,805
Air Emissions	650,682	68,475	719,157
Surface Water Discharges	45,847	10	45,857
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	1,791	0	1,791
Off-site Releases (Transfers Off-site to Disposal)*	1,098	1,010	2,108
<b>Total On- and Off-site Releases</b>	<b>699,418</b>	<b>69,495</b>	<b>768,913</b>
Recycled On-site	864,705	0	864,705
Recycled Off-site	159,347	0	159,347
Energy Recovery On-site	0	0	0
Energy Recovery Off-site	4,184	0	4,184
Treated On-site	13,041,037	27,590	13,068,627
Treated Off-site**	18,692	0	18,692
Quantity Released On- and Off-site***	699,019	68,275	767,294
<b>Total Production-related Waste Managed</b>	<b>14,786,984</b>	<b>95,865</b>	<b>14,882,849</b>
<b>Total Non-production-related Waste Managed</b>	<b>480</b>	<b>0</b>	<b>480</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	159,347	0	159,347
Energy Recovery	4,184	0	4,184
Treatment	18,692	0	18,692
Publicly Owned Treatment Works (POTWs)	0	0	0
Metals and Metal Compounds*	0	0	0
Non-metal TRI Chemicals**	0	0	0
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	1,179	1,010	2,189
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>183,402</b>	<b>1,010</b>	<b>184,412</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

Hollis L. Griffin  
(340) 773-0565 (St. Croix)  
Fax: (340) 773-9310  
(340) 777-4577 (St. Thomas)  
Fax: (340) 774-5416  
E-mail: hlgriff12@viaccess.net

#### EPA Regional Contact:

Nora Lopez  
(732) 906-6890  
Fax: (732) 321-6788  
E-mail: lopez.nora@epa.gov

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531  
Fax: (202) 401-2347



Original industry



New industry

The largest marker in the state map represents the largest facility for on-site releases in the Virgin Islands. All markers are proportionally-sized to represent the on-site releases at each facility within this territory.

### State/TRI Data

Population	119,615
Square Miles	134
Total Facilities	5
Total Forms	50
Form As	3

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	50	53	51
Pounds	699,418	69,495	768,913
<b>National Rank for Total On-site Releases**</b>			
Rank	50	53	51
Pounds	698,320	68,485	766,805
<b>National Rank for Total Releases within State***</b>			
Rank	50	53	51
Pounds	698,320	68,485	766,805
<b>National Rank for Production-related Waste Managed</b>			
Rank	47	52	50
Pounds	14,786,984	95,865	14,882,849

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## VIRGIN ISLANDS

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-41-7	Ammonia	78,989	43,205	0	0	0	122,194	0	0	0
1330-20-7	Xylene (mixed isomers)	120,708	1	0	0	5	120,714	0	0	5
115-07-1	Propylene	110,434	0	0	0	0	110,434	0	0	0
108-95-2	Phenol	66,803	1,160	0	0	0	67,963	0	0	0
108-88-3	Toluene	49,167	5	0	0	13	49,185	0	0	13
1634-04-4	Methyl tert-butyl ether	44,613	0	0	0	0	44,613	0	0	0
110-54-3	n-Hexane	32,393	0	0	0	0	32,393	0	0	0
74-85-1	Ethylene	31,741	0	0	0	0	31,741	0	0	0
71-43-2	Benzene	27,275	6	0	0	26	27,307	0	0	26
100-41-4	Ethylbenzene	22,827	0	0	0	1	22,828	0	0	1

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-93-9	Sulfuric acid	36,711	0	0	0	0	36,711	0	0	0
7647-01-0	Hydrochloric acid	27,709	0	0	0	0	27,709	0	0	0
1634-04-4	Methyl tert-butyl ether	2,088	0	0	0	250	2,338	0	0	250
108-88-3	Toluene	755	0	0	0	250	1,005	0	0	250
1330-20-7	Xylene (mixed isomers)	560	0	0	0	250	810	0	0	250
110-54-3	n-Hexane	382	0	0	0	250	632	0	0	250
71-43-2	Benzene	139	0	0	0	5	144	0	0	5
100-41-4	Ethylbenzene	72	0	0	0	5	77	0	0	5
95-63-6	1,2,4-Trimethylbenzene	56	0	0	0	0	56	0	0	0
7782-50-5	Chlorine	0	10	0	0	0	10	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## VIRGIN ISLANDS

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	<u>Underground Injection</u>				<u>On-site Releases to Land</u>			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Hovensa L.L.C., Christiansted, St Croix	650,682	45,847	0	0	0	1,791	698,320	0	1,179

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Virgin Islands Water & Power Authority, Saint Thomas, St Thomas	64,462	5	0	0	0	0	64,467	0	0
Esso St. Thomas Bulk Terminal, Saint Thomas, St Thomas	3,440	0	0	0	0	0	3,440	0	1,010
Texaco Caribbean Inc. - St. Thomas Bulk Terminal, Charlotte Amalie, St Thomas	520	0	0	0	0	0	520	0	0
Virgin Islands Water & Power Authority, Saint Croix, St Croix	53	5	0	0	0	0	58	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## VIRGIN ISLANDS

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Hovensa L.L.C., Christiansted, St Croix	864,705	159,347	0	4,184	13,041,037	18,692	699,019	14,786,984	480

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Virgin Islands Water & Power Authority, Saint Thomas, St Thomas	0	0	0	0	17,750	0	64,467	82,217	0
Esso St. Thomas Bulk Terminal, Saint Thomas, St Thomas	0	0	0	0	0	0	3,621	3,621	0
Texaco Caribbean Inc. - St. Thomas Bulk Terminal, Charlotte Amalie, St Thomas	0	0	0	0	0	0	129	129	0
Virgin Islands Water & Power Authority, Saint Croix, St Croix	0	0	0	0	9,840	0	58	9,898	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## VIRGINIA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	48,006,831	22,154,227	70,161,058
Air Emissions	41,234,709	18,894,559	60,129,268
Surface Water Discharges	4,708,404	61,418	4,769,822
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	7,960	0	7,960
Other On-site Land Releases	2,055,758	3,198,250	5,254,008
Off-site Releases (Transfers Off-site to Disposal)*	9,404,249	1,004,298	10,408,547
<b>Total On- and Off-site Releases</b>	<b>57,411,080</b>	<b>23,158,525</b>	<b>80,569,605</b>
Recycled On-site	133,276,080	57,674	133,333,754
Recycled Off-site	25,108,105	974,873	26,082,978
Energy Recovery On-site	36,279,012	0	36,279,012
Energy Recovery Off-site	8,234,163	6,677	8,240,840
Treated On-site	103,975,102	10,469,622	114,444,724
Treated Off-site**	19,151,167	25,623	19,176,790
Quantity Released On- and Off-site***	54,611,285	22,788,196	77,399,481
<b>Total Production-related Waste Managed</b>	<b>380,634,914</b>	<b>34,322,665</b>	<b>414,957,579</b>
<b>Total Non-production-related Waste Managed</b>	<b>126,270</b>	<b>21</b>	<b>126,291</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	26,564,962	791,561	27,356,523
Energy Recovery	7,756,956	6,928	7,763,884
Treatment	1,324,435	3,612	1,328,047
Publicly Owned Treatment Works (POTWs)	17,653,192	24,210	17,677,402
Metals and Metal Compounds*	86,728	0	86,728
Non-metal TRI Chemicals**	17,566,464	24,210	17,590,674
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	9,721,088	1,004,364	10,725,452
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>63,020,633</b>	<b>1,830,675</b>	<b>64,851,308</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\*Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

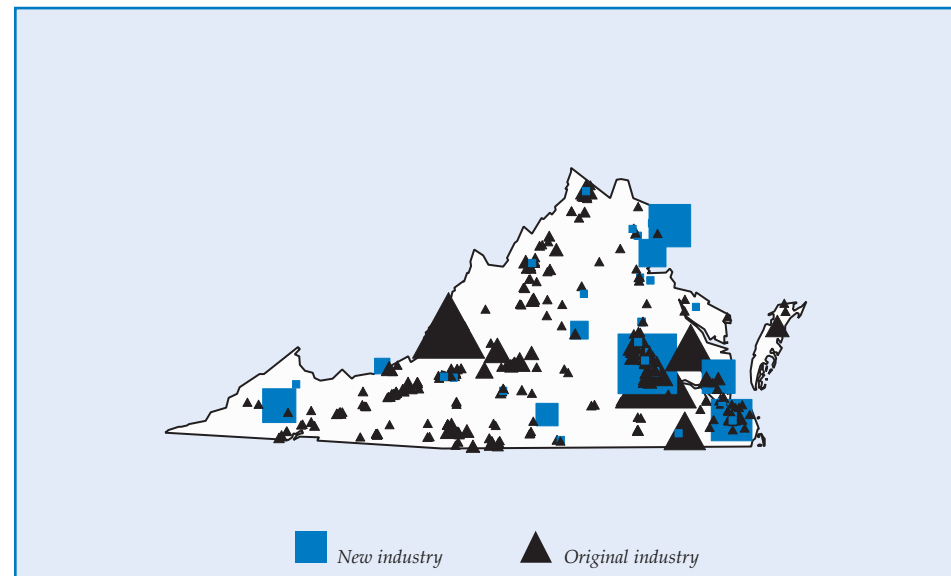
Dona Huang  
(804) 698-4489  
Fax: (804) 698-4264  
E-mail: drhuang@deq.state.va.us

#### EPA Regional Contact:

Bill Reilly  
(215) 814-2072  
Fax: (215) 814-3114  
E-mail: reilly.william@epa.gov

#### To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Virginia. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	6,872,912
Square Miles	39,598
Total Facilities	464
Total Forms	1,669
Form As	258

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	16	27	24
Pounds	57,411,080	23,158,525	80,569,605
<b>National Rank for Total On-site Releases**</b>			
Rank	18	27	25
Pounds	48,006,831	22,154,227	70,161,058
<b>National Rank for Total Releases within State***</b>			
Rank	17	27	24
Pounds	57,038,054	22,836,684	79,874,738
<b>National Rank for Production-related Waste Managed</b>			
Rank	18	30	22
Pounds	380,634,914	34,322,665	414,957,579

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## VIRGINIA

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
67-56-1	Methanol	11,523,076	64,203	0	54,051	66,051	11,707,381	0	51,010	15,041
7664-41-7	Ammonia	7,792,011	207,798	0	877	200,385	8,201,071	34	8,108	192,277
108-88-3	Toluene	4,269,293	1,871	0	10,446	723	4,282,333	0	711	12
--	Nitrate compounds	4,674	4,145,236	0	0	16,200	4,166,110	0	8,645	7,555
7647-01-0	Hydrochloric acid	3,196,056	0	0	0	88	3,196,144	0	0	88
7440-66-6	Zinc (fume or dust)	10,849	6,581	0	29,512	2,989,427	3,036,369	0	2,926,839	62,588
1332-21-4	Asbestos (friable)	296	0	0	0	2,451,886	2,452,182	0	2,451,886	0
--	Zinc compounds	81,111	25,309	0	713,461	1,219,145	2,039,026	77,472	1,075,772	143,686
78-93-3	Methyl ethyl ketone	1,622,658	2,725	0	4,458	1,070	1,630,911	0	315	755
--	Manganese compounds	21,035	125,026	0	424,772	827,510	1,398,343	13,609	923,588	2,123

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	13,406,111	0	0	0	0	13,406,111	0	0	0
7664-93-9	Sulfuric acid	3,601,499	0	0	0	0	3,601,499	0	0	0
--	Barium compounds	1,937	21,613	0	1,455,010	299,675	1,778,235	0	296,885	2,790
7664-39-3	Hydrogen fluoride	1,464,355	0	0	0	0	1,464,355	0	0	0
--	Copper compounds	1,870	5,005	0	330,260	111,016	448,151	4,320	110,511	505
--	Manganese compounds	58,227	23,821	0	329,210	35,310	446,568	0	35,300	10
--	Zinc compounds	7,630	5,435	0	345,810	54,505	413,380	50	54,000	505
--	Chromium compounds	61,098	167	0	226,110	60,060	347,435	2,483	59,659	401
--	Nickel compounds	46,145	1,025	0	215,410	63,255	325,835	0	63,000	255
107-21-1	Ethylene glycol	17	0	0	0	184,412	184,429	131	0	184,412

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## VIRGINIA

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Honeywell Intl. Inc. Hopewell Plant, Hopewell, Hopewell City	5,098,815	365,830	0	0	0	0	5,464,645	16,900	0
Westvaco of Virginia. Inc., Covington, Alleghany	4,549,049	7,860	0	0	0	240,991	4,797,900	0	0
St. Laurent Paper Prods. Corp., West Point, King William	2,673,247	115,044	0	0	0	418,709	3,207,000	0	0
International Paper Franklin Mill, Franklin, Isle of Wight	2,226,659	249,293	0	0	0	0	2,475,952	542,248	0
Fibermark Inc., Richmond, Henrico	1,830,470	0	0	0	0	0	1,830,470	0	0
Stone Container Corp., Hopewell, Hopewell City	1,757,586	0	0	0	0	0	1,757,586	484,800	0
Quebecor World Richmond Inc., Richmond, Henrico	1,638,600	0	0	0	0	0	1,638,600	0	5
Georgia-Pacific Corp., Big Island, Bedford	1,106,933	36,257	0	0	0	226,240	1,369,430	0	0
Philip Morris USA - BL/LPF/TQAF, Richmond, Richmond City	1,292,265	0	0	0	0	0	1,292,265	1,400	0
Perdue Farms Inc. Accomac Processing Plant, Accomac, Accomack	15,001	1,100,070	0	0	0	0	1,115,071	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Chesterfield Power Station, Chester, Chesterfield	4,097,707	12,867	0	0	0	822,000	4,932,574	0	1,030
Pepco Potomac River Generating Station, Alexandria, Alexandria City	3,301,510	3,500	0	0	0	0	3,305,010	0	187,000
Chesapeake Energy Center, Chesapeake, Chesapeake City	2,590,886	9,591	0	0	0	610,000	3,210,477	0	0
American Electric Power Clinch River Plant, Cleveland, Russell	2,262,490	502	0	0	0	231,870	2,494,862	0	2,445
Yorktown Power Station, Yorktown, York	2,450,140	21,253	0	0	0	0	2,471,393	256,900	0
Possum Point Power Station, Dumfries, Prince William	1,595,600	6,364	0	0	0	299,000	1,900,964	0	500
Clover Power Station, Clover, Halifax	411,680	3,775	0	0	0	1,020,000	1,435,455	0	0
Bremo Power Station, Bremo Bluff, Fluvanna	843,700	3,030	0	0	0	150,000	996,730	0	0
Glen Lyn Plant, Glen Lyn, Giles	722,459	195	0	0	0	64,130	786,784	203,000	725
James River Cogeneration Co. Inc., Hopewell, Hopewell City	160,000	0	0	0	0	0	160,000	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.





# 1999 Toxics Release Inventory

## VIRGINIA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Honeywell Intl. Inc. Hopewell Plant, Hopewell, Hopewell City	3,141,000	0	1,729,800	0	3,438,060	889,090	5,172,555	14,370,505	0
Westvaco of Virginia. Inc., Covington, Alleghany	0	0	2,451,000	0	19,007,830	0	4,741,399	26,200,229	0
Roanoke Electric Steel Corp., Roanoke, Roanoke	0	0	0	0	0	0	3,692,419	3,692,419	0
St. Laurent Paper Prods. Corp., West Point, King William	0	0	912,022	0	4,440,877	0	3,209,123	8,562,022	12
International Paper Franklin Mill, Franklin, Isle of Wight	170,000	0	1,600,104	0	36,182,601	0	3,030,000	40,982,705	4
Stone Container Corp., Hopewell, Hopewell City	0	0	9,990	0	0	5,453,920	2,244,836	7,708,746	0
Quebecor World Richmond Inc., Richmond, Henrico	23,941,985	4,012	0	26,873	0	0	1,638,600	25,611,470	0
Fibermark Inc., Richmond, Henrico	5,753,863	0	0	1,866	0	0	1,624,774	7,380,503	0
Georgia-Pacific Corp., Big Island, Bedford	0	0	0	0	1,568,719	0	1,349,474	2,918,193	90
Philip Morris USA - BL/LPF/TQAF, Richmond, Richmond City	0	0	0	0	0	21,520	1,292,265	1,313,785	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Chesterfield Power Station, Chester, Chesterfield	0	0	0	0	880,000	0	4,932,000	5,812,000	0
Pepco Potomac River Generating Station, Alexandria, Alexandria City	0	0	0	0	68,000	0	3,491,000	3,559,000	0
Chesapeake Energy Center, Chesapeake, Chesapeake City	0	0	0	0	480,000	0	3,209,000	3,689,000	0
Yorktown Power Station, Yorktown, York	0	0	0	0	330,000	0	2,732,000	3,062,000	0
American Electric Power Clinch River Plant, Cleveland, Russell	0	108,300	0	0	360,000	0	2,501,600	2,969,900	0
Possum Point Power Station, Dumfries, Prince William	0	0	0	0	250,000	0	1,797,000	2,047,000	0
Clover Power Station, Clover, Halifax	0	0	0	0	4,120,000	0	1,431,500	5,551,500	0
Bremo Power Station, Bremo Bluff, Fluvanna	0	0	0	0	120,000	0	998,000	1,118,000	0
Glen Lyn Plant, Glen Lyn, Giles	0	14,760	0	0	200,000	0	987,000	1,201,760	0
James River Cogeneration Co. Inc., Hopewell, Hopewell City	0	0	0	0	0	0	160,000	160,000	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## WASHINGTON

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	22,212,395	3,525,911	25,738,306
Air Emissions	18,913,981	1,262,291	20,176,272
Surface Water Discharges	3,098,503	1,642	3,100,145
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	1,865	0	1,865
Other On-site Land Releases	198,046	2,261,978	2,460,024
Off-site Releases (Transfers Off-site to Disposal)*	2,591,783	144,826	2,736,609
<b>Total On- and Off-site Releases</b>	<b>24,804,178</b>	<b>3,670,737</b>	<b>28,474,915</b>
Recycled On-site	37,945,844	1,736,294	39,682,138
Recycled Off-site	12,746,258	727,137	13,473,395
Energy Recovery On-site	15,687,058	0	15,687,058
Energy Recovery Off-site	615,451	789	616,240
Treated On-site	65,525,005	235,762	65,760,767
Treated Off-site**	3,841,430	246,856	4,088,286
Quantity Released On- and Off-site***	24,719,261	3,630,438	28,349,699
<b>Total Production-related Waste Managed</b>	<b>161,080,307</b>	<b>6,577,276</b>	<b>167,657,583</b>
<b>Total Non-production-related Waste Managed</b>	<b>68,437</b>	<b>3,511</b>	<b>71,948</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	11,197,356	534,291	11,731,647
Energy Recovery	687,262	30,891	718,153
Treatment	876,999	97,772	974,771
Publicly Owned Treatment Works (POTWs)	3,007,959	1,037	3,008,996
Metals and Metal Compounds*	2,720	761	3,481
Non-metal TRI Chemicals**	3,005,239	276	3,005,515
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	3,019,169	259,997	3,279,166
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>18,788,745</b>	<b>923,988</b>	<b>19,712,733</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

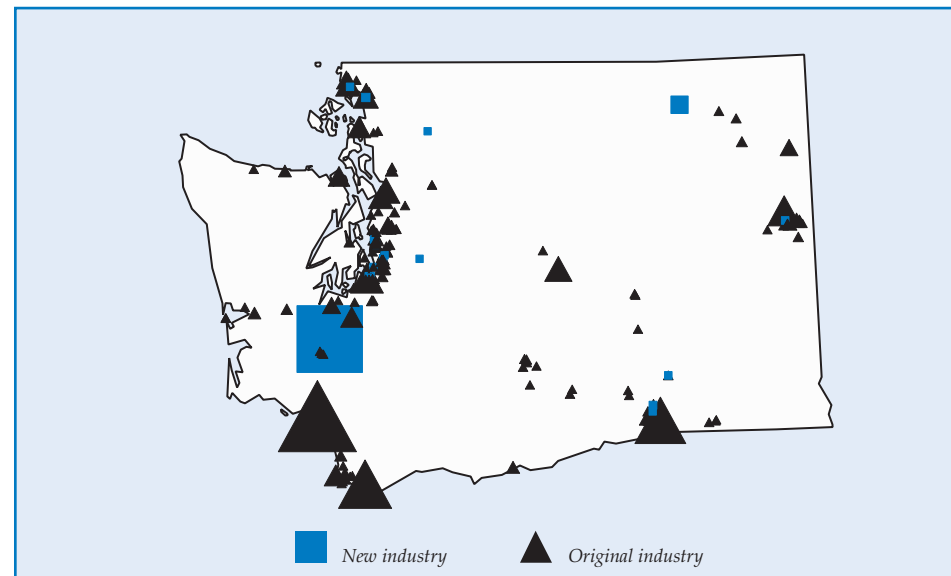
Idell Hansen  
(360) 407-6727  
Fax: (360) 407-6715  
E-mail: [ihan461@ecy.wa.gov](mailto:ihan461@ecy.wa.gov)

#### EPA Regional Contact:

Christina Colt  
(206) 553-4016  
Fax: (206) 553-8509  
E-mail: [colt.christina@epa.gov](mailto:colt.christina@epa.gov)

#### To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Washington. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	5,756,361
Square Miles	66,581
Total Facilities	293
Total Forms	1,035
Form As	161

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	28	45	37
Pounds	24,804,178	3,670,737	28,474,915
<b>National Rank for Total On-site Releases**</b>			
Rank	27	45	36
Pounds	22,212,395	3,525,911	25,738,306
<b>National Rank for Total Releases within State***</b>			
Rank	30	44	38
Pounds	22,990,714	3,661,710	26,652,424
<b>National Rank for Production-related Waste Managed</b>			
Rank	30	44	35
Pounds	161,080,307	6,577,276	167,657,583

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## WASHINGTON

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
67-56-1	Methanol	3,967,571	553,046	0	5,850	4,667	4,531,134	0	3,600	1,067
463-58-1	Carbonyl sulfide	2,322,374	0	0	0	0	2,322,374	0	0	0
--	Nitrate compounds	266	1,860,942	0	58,055	334,029	2,253,292	0	5	334,024
7664-41-7	Ammonia	1,529,082	278,675	0	35,262	96,596	1,939,615	0	86,096	10,500
100-42-5	Styrene	1,542,819	193	0	0	5	1,543,017	0	5	0
--	Polycyclic aromatic compounds	51,393	95	0	270	1,229,903	1,281,661	0	250	1,229,653
7647-01-0	Hydrochloric acid	1,256,633	0	0	0	0	1,256,633	0	0	0
7664-39-3	Hydrogen fluoride	1,220,201	5	0	5	1,237	1,221,448	0	1,237	0
7664-93-9	Sulfuric acid	1,137,619	0	0	0	0	1,137,619	0	0	0
78-93-3	Methyl ethyl ketone	869,173	2,129	0	5	9,732	881,039	130	9,043	689

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Barium compounds	861	429	0	681,070	21,407	703,767	14,000	21,407	0
7664-39-3	Hydrogen fluoride	598,898	0	0	0	0	598,898	0	0	0
--	Manganese compounds	369	92	0	439,034	36,876	476,371	2,100	36,876	0
--	Zinc compounds	243	270	0	274,117	81,095	355,725	1,600	31,832	49,263
7647-01-0	Hydrochloric acid	330,215	0	0	0	0	330,215	0	0	0
--	Copper compounds	141	15	0	188,388	90,582	279,126	769	5,706	84,876
--	Lead compounds	117	6	0	255,973	9,871	265,967	461	9,871	0
7664-93-9	Sulfuric acid	201,512	0	0	0	0	201,512	0	0	0
--	Nitrate compounds	10	0	0	140,005	0	140,015	5	0	0
--	Nickel compounds	21	32	0	104,915	3,597	108,565	183	3,597	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## WASHINGTON

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Weyerhaeuser Co., Longview, Cowlitz	2,533,753	107,263	0	0	0	0	2,641,016	129,959	0
Fort James Camas L.L.C., Camas, Clark	1,147,405	531,060	0	0	0	2,825	1,681,290	0	34,000
Boise Cascade Paper Div., Wallula, Walla Walla	1,453,764	130,907	0	0	0	15,622	1,600,293	0	11
Kaiser Aluminum & Chemical Corp. - Mead Works, Mead, Spokane	911,255	290	0	0	0	255	911,800	1,150	9,600
Simpson Tacoma Kraft Co., Tacoma, Pierce	818,477	89,101	0	0	0	0	907,578	103	0
Longview Fibre Co., Longview, Cowlitz	604,725	142,160	0	0	0	0	746,885	104,400	0
Prodraca L.L.C. Kennewick Plant/Kennewick Area, Kennewick, Benton	654,455	15,605	0	0	0	57,905	727,965	0	344,400
Kimberly-Clark Tissue Co., Everett, Snohomish	165,504	553,330	0	0	0	0	718,834	173,350	0
Alcoa Wenatchee Works, Malaga, Chelan	695,534	0	0	0	0	0	695,534	0	21,134
Intalco Aluminum Corp., Ferndale, Whatcom	615,177	0	0	0	0	40	615,217	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Centralia Power Plant, Centralia, Lewis	1,029,089	627	0	0	0	1,783,348	2,813,064	48,819	0
Kettle River Ops. Mill, Republic, Ferry	47	0	0	0	0	478,415	478,462	11	0
City of Tacoma Steam Plant No 2, Tacoma, Pierce	103,550	0	0	0	0	10	103,560	59,785	0
Encogen Northwest Cogeneration Plant, Bellingham, Whatcom	54,005	0	0	0	0	0	54,005	0	0
Tidewater Terminal Co. Snake River Terminal, Pasco, Franklin	25,300	0	0	0	0	0	25,300	0	0
Tosco Renton Terminal, Renton, King	11,385	0	0	0	0	0	11,385	0	0
Northwest Terminalling Co. (Pasco), Pasco, Franklin	10,571	0	0	0	0	0	10,571	0	0
Conoco Parkwater Product Terminal, Spokane, Spokane	10,240	0	0	0	0	0	10,240	0	0
Equilon Seattle Terminal, Seattle, King	5,000	250	0	0	0	0	5,250	1,255	0
Tenaska Washington Partners Ferndale Cogeneration Facility, Ferndale, Whatcom	4,100	0	0	0	0	0	4,100	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1999 Toxics Release Inventory

## WASHINGTON

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Weyerhaeuser Co., Longview, Cowlitz	1,400	0	0	700	7,479,237	0	2,774,902	10,256,239	23
Fort James Camas L.L.C., Camas, Clark	0	0	1,171,700	0	11,332,011	66,900	1,723,450	14,294,061	9
Boise Cascade Paper Div., Wallula, Walla Walla	0	0	31,000	0	8,970,500	0	1,600,701	10,602,201	0
Reynolds Metals Co., Longview Reduction Plant, Longview, Cowlitz	0	17,285	0	0	3,213,223	2,921	1,537,968	4,771,397	0
Prodicta L.L.C. Kennewick Plant/Kennewick Area, Kennewick, Benton	0	0	0	0	0	0	1,015,920	1,015,920	56,800
Kaiser Aluminum & Chemical Corp. - Mead Works, Mead, Spokane	2,790	2,000,000	0	0	64,000	0	922,470	2,989,260	0
Simpson Tacoma Kraft Co., Tacoma, Pierce	0	0	298,000	0	5,272,100	0	903,460	6,473,560	125
Longview Fibre Co., Longview, Cowlitz	56,000	76,000	200,490	0	7,244,100	0	855,719	8,432,309	8
Kimberly-Clark Tissue Co., Everett, Snohomish	0	0	160,800	0	3,676,500	173,350	718,750	4,729,400	0
Alcoa Wenatchee Works, Malaga, Chelan	8,190,638	0	0	0	0	0	695,814	8,886,452	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Centralia Power Plant, Centralia, Lewis	0	0	0	0	96,966	0	2,861,731	2,958,697	0
Kettle River Ops. Mill, Republic, Ferry	0	0	0	0	0	11	478,400	478,411	0
City of Tacoma Steam Plant No 2, Tacoma, Pierce	0	189,897	0	0	0	0	163,343	353,240	0
Encogen Northwest Cogeneration Plant, Bellingham, Whatcom	0	0	0	0	0	0	54,263	54,263	0
Tidewater Terminal Co. Snake River Terminal, Pasco, Franklin	9,000	0	0	0	23,211	5,970	25,247	63,428	0
Northwest Terminalling Co. (Pasco), Pasco, Franklin	0	0	0	0	53,284	203	10,573	64,060	0
Tosco Renton Terminal, Renton, King	417,140	62	0	62	18	2,630	10,460	430,372	0
Conoco Parkwater Product Terminal, Spokane, Spokane	0	0	0	0	0	1,627	8,945	10,572	0
Equilon Seattle Terminal, Seattle, King	0	2	0	32	0	407	4,360	4,801	0
Tenaska Washington Partners Ferndale Cogeneration Facility, Ferndale, Whatcom	0	0	0	0	0	0	4,100	4,100	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## WEST VIRGINIA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	19,557,851	76,885,995	96,443,846
Air Emissions	11,825,861	65,675,117	77,500,978
Surface Water Discharges	7,606,602	303,300	7,909,902
Underground Injection Class I Wells	10	0	10
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	60,897	0	60,897
Other On-site Land Releases	64,481	10,907,578	10,972,059
Off-site Releases (Transfers Off-site to Disposal)*	2,204,395	1,843,870	4,048,265
<b>Total On- and Off-site Releases</b>	<b>21,762,246</b>	<b>78,729,865</b>	<b>100,492,111</b>
Recycled On-site	43,188,478	0	43,188,478
Recycled Off-site	6,236,674	636,350	6,873,024
Energy Recovery On-site	35,264,759	0	35,264,759
Energy Recovery Off-site	12,914,537	613	12,915,150
Treated On-site	114,498,331	26,844,642	141,342,973
Treated Off-site**	7,778,347	400	7,778,747
Quantity Released On- and Off-site***	21,733,723	78,744,207	100,477,930
<b>Total Production-related Waste Managed</b>	<b>241,614,849</b>	<b>106,226,212</b>	<b>347,841,061</b>
<b>Total Non-production-related Waste Managed</b>	<b>80,947</b>	<b>23</b>	<b>80,970</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	7,418,404	636,350	8,054,754
Energy Recovery	12,774,474	0	12,774,474
Treatment	5,331,252	2,000	5,333,252
Publicly Owned Treatment Works (POTWs)	3,072,147	3	3,072,150
Metals and Metal Compounds*	3,930	3	3,933
Non-metal TRI Chemicals**	3,068,217	0	3,068,217
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	2,351,954	1,844,367	4,196,321
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>30,948,231</b>	<b>2,482,720</b>	<b>33,430,951</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

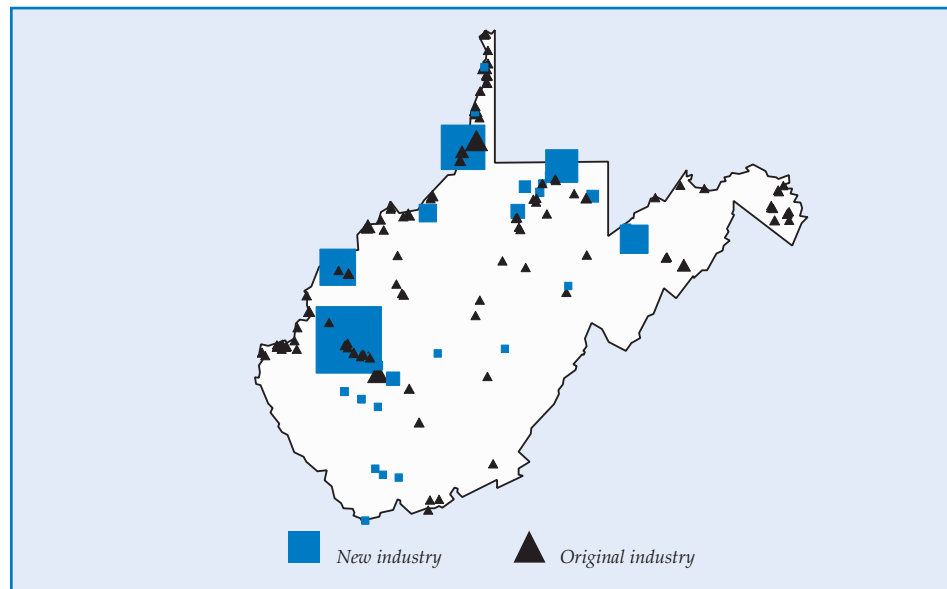
John W. Pack, Jr.  
(304) 558-5380  
Fax: (304) 344-4538  
E-mail: jpack1@wvoes.state.wv.us

#### EPA Regional Contact:

Bill Reilly  
(215) 814-2072  
Fax: (215) 814-3114  
E-mail: reilly.william@epa.gov

#### To obtain TRI data use

assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of West Virginia. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	1,806,928
Square Miles	24,087
Total Facilities	174
Total Forms	903
Form As	54

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	32	10	21
Pounds	21,762,246	78,729,865	100,492,111
<b>National Rank for Total On-site Releases**</b>			
Rank	31	10	20
Pounds	19,557,851	76,885,995	96,443,846
<b>National Rank for Total Releases within State***</b>			
Rank	32	10	22
Pounds	20,990,520	78,731,730	99,722,250
<b>National Rank for Production-related Waste Managed</b>			
Rank	27	15	28
Pounds	241,614,849	106,226,212	347,841,061

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## WEST VIRGINIA

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Nitrate compounds	0	6,956,009	0	2,582	0	6,958,591	0	0	0
108-88-3	Toluene	861,123	1,405	0	1,659	286,987	1,151,174	0	240	286,747
--	Glycol ethers	1,089,727	21,056	0	10,753	435	1,121,971	11	0	435
7647-01-0	Hydrochloric acid	1,092,724	250	0	13	0	1,092,987	0	0	0
67-56-1	Methanol	903,905	56,867	0	4,409	204	965,385	0	0	204
--	Manganese compounds	9,144	57,318	0	0	826,053	892,515	72,011	756,970	69,083
75-15-0	Carbon disulfide	749,534	20	0	0	0	749,554	0	0	0
7664-41-7	Ammonia	600,442	68,590	0	44,000	32,103	745,135	482	32,103	0
1330-20-7	Xylene (mixed isomers)	638,987	853	0	172	1,725	641,737	2	240	1,485
78-93-3	Methyl ethyl ketone	567,660	120	0	0	731	568,511	0	0	731

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	53,794,203	0	0	0	0	53,794,203	0	0	0
7664-93-9	Sulfuric acid	7,063,507	0	0	0	0	7,063,507	0	0	0
--	Barium compounds	13,043	26,950	0	4,800,825	767,503	5,608,321	5,596	765,506	1,997
7664-39-3	Hydrogen fluoride	3,999,913	0	0	0	0	3,999,913	0	0	0
--	Manganese compounds	43,598	43,094	0	1,127,602	166,000	1,380,294	0	166,000	0
--	Zinc compounds	14,927	12,935	0	1,138,549	177,000	1,343,411	0	177,000	0
--	Copper compounds	3,808	16,158	0	1,061,105	154,000	1,235,071	0	154,000	0
--	Chromium compounds	47,098	576	0	742,695	142,863	933,232	275	142,274	589
--	Nickel compounds	31,328	12,429	0	667,045	120,000	830,802	0	120,000	0
7664-41-7	Ammonia	544,669	183,311	0	0	0	727,980	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## WEST VIRGINIA

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Bayer Corp., New Martinsville, Marshall	303,517	3,079,730	0	0	0	880	3,384,127	34,481	28,471
Du Pont Belle Plant, Belle, Kanawha	138,057	2,817,200	0	0	0	0	2,955,257	0	0
Du Pont Washington Works, Washington, Wood	919,448	426,102	0	0	0	0	1,345,550	3,617	30,413
U.S. Can Co. Plant #20 Weirton, Weirton, Brooke	1,283,928	0	0	0	0	0	1,283,928	0	0
American Woodmark Corp. (Hardy County Facility), Moorefield, Hardy	1,014,492	0	0	0	0	0	1,014,492	0	0
Columbian Chemicals Co., Proctor, Marshall	970,005	0	0	0	0	0	970,005	0	0
Cytec Inds. Inc., Willow Island, Pleasants	412,206	430,093	0	0	0	0	842,299	0	280,720
Ck Witco Corp. Sistersville Plant, Friendly, Tyler	545,595	17,483	0	0	10,805	23	573,906	0	0
Shell Chemical Co., Apple Grove, Mason	465,416	72,202	0	0	0	0	537,618	0	0
PPG Inds. Inc., New Martinsville, Marshall	466,430	8,909	0	0	0	160	475,499	0	62

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
American Electric Power John E. Amos Plant, Winfield, Putnam	17,944,581	6,872	0	0	0	1,184,516	19,135,969	1,477,280	363
American Electric Power Mitchell Plant, Moundsville, Marshall	10,614,864	5,608	0	0	0	1,387,755	12,008,227	1,386	102
American Electric Power Mountaineer Plant, New Haven, Mason	8,064,323	3,077	0	0	0	1,300,719	9,368,119	1	779
Allegheny Energy Inc. Fort Martin Power Station, Maidsville, Monongalia	7,560,285	2,032	0	0	0	621,810	8,184,127	0	0
Mt. Storm Power Station, Mount Storm, Grant	5,167,703	4,077	0	0	0	1,618,200	6,789,980	0	0
American Electric Power Philip Sporn Plant, New Haven, Mason	4,440,616	6,787	0	0	0	912,955	5,360,358	0	1,545
American Electric Power Kammer Plant, Moundsville, Marshall	4,036,453	41,633	0	0	0	252,455	4,330,541	2,552	281
Allegheny Energy Inc. Pleasants/Willow Island Power Stations, Willow Island, Pleasants	1,911,394	6,257	0	0	0	1,417,600	3,335,251	0	0
Allegheny Energy Inc. Harrison Power Station, Haywood, Harrison	272,777	1,316	0	0	0	1,866,000	2,140,093	0	0
American Electric Power Kanawha River Plant, Glasgow, Kanawha	1,941,374	2,712	0	0	0	30	1,944,116	240,054	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.





# 1999 Toxics Release Inventory

## WEST VIRGINIA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Bayer Corp., New Martinsville, Marshall	0	96,093	1,227,350	489,734	4,507,076	35,954	3,538,078	9,894,285	8,683
Du Pont Belle Plant, Belle, Kanawha	0	0	0	1,399,574	8,968,560	386,608	2,955,257	13,709,999	1
Du Pont Washington Works, Washington, Wood	2,611,684	35,676	0	0	14,785,785	563,567	1,354,301	19,351,013	31,280
U.S. Can Co. Plant #20 Weirton, Weirton, Brooke	0	198,273	0	174,419	0	0	1,283,928	1,656,620	0
Weirton Steel Corp., Weirton, Hancock	51,920	0	0	0	216,333	13,158	1,211,345	1,492,756	18,295
Cytex Inds. Inc., Willow Island, Pleasants	18,492,800	0	0	1,759,900	6,294,670	0	1,122,921	27,670,291	0
American Woodmark Corp. (Hardy County Facility), Moorefield, Hardy	22,853	0	0	82,008	0	0	991,637	1,096,498	0
Columbian Chemicals Co., Proctor, Marshall	0	0	0	0	340,000	0	970,005	1,310,005	0
Shell Chemical Co., Apple Grove, Mason	0	0	0	0	4,686,475	0	603,640	5,290,115	0
PPG Inds. Inc., New Martinsville, Marshall	13,119,223	1,097	0	0	754,536	266,629	478,469	14,619,954	220

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
American Electric Power John E. Amos Plant, Winfield, Putnam	0	148,400	0	0	1,600,000	0	20,646,000	22,394,400	0
American Electric Power Mitchell Plant, Moundsville, Marshall	0	15,080	0	0	820,000	0	12,000,400	12,835,480	0
American Electric Power Mountaineer Plant, New Haven, Mason	0	23,070	0	0	650,000	0	9,368,900	10,041,970	0
Allegheny Energy Inc. Fort Martin Power Station, Maidsville, Monongalia	0	0	0	0	0	0	8,174,010	8,174,010	0
Mt. Storm Power Station, Mount Storm, Grant	0	0	0	0	4,190,000	0	6,803,000	10,993,000	0
American Electric Power Philip Sporn Plant, New Haven, Mason	0	87,100	0	0	1,000,000	0	5,357,200	6,444,300	0
American Electric Power Kammer Plant, Moundsville, Marshall	0	98,700	0	0	0	0	4,333,600	4,432,300	0
Allegheny Energy Inc. Pleasants/Willow Island Power Stations, Willow Island, Pleasants	0	0	0	0	11,010,000	0	3,345,000	14,355,000	0
American Electric Power Kanawha River Plant, Glasgow, Kanawha	0	52,900	0	0	200,000	0	2,183,000	2,435,900	0
Allegheny Energy Inc. Harrison Power Station, Haywood, Harrison	0	0	0	0	7,300,000	0	2,138,000	9,438,000	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## WISCONSIN

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	30,293,453	12,781,590	43,075,043
Air Emissions	25,479,543	11,365,039	36,844,582
Surface Water Discharges	3,523,115	20,025	3,543,140
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	590	0	590
Other On-site Land Releases	1,290,205	1,396,526	2,686,731
Off-site Releases (Transfers Off-site to Disposal)*	10,697,192	4,609,542	15,306,734
<b>Total On- and Off-site Releases</b>	<b>40,990,645</b>	<b>17,391,132</b>	<b>58,381,777</b>
Recycled On-site	62,455,920	10,215,373	72,671,293
Recycled Off-site	57,992,583	453,866	58,446,449
Energy Recovery On-site	13,025,800	590,916	13,616,716
Energy Recovery Off-site	13,661,973	13,796,016	27,457,989
Treated On-site	111,613,249	2,945,760	114,559,009
Treated Off-site**	14,802,366	1,116,217	15,918,583
Quantity Released On- and Off-site***	39,179,381	16,998,106	56,177,487
<b>Total Production-related Waste Managed</b>	<b>312,731,272</b>	<b>46,116,254</b>	<b>358,847,526</b>
<b>Total Non-production-related Waste Managed</b>	<b>148,650</b>	<b>1,013</b>	<b>149,663</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	57,619,441	4,547,961	62,167,402
Energy Recovery	13,583,988	10,387,707	23,971,695
Treatment	8,798,865	701,742	9,500,607
Publicly Owned Treatment Works (POTWs)	5,895,837	1,455	5,897,292
Metals and Metal Compounds*	83,012	5	83,017
Non-metal TRI Chemicals**	5,812,825	1,450	5,814,275
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	11,520,527	4,609,837	16,130,364
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>97,418,658</b>	<b>20,248,702</b>	<b>117,667,360</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

Tara L. Edblom

(608) 264-6043

Fax: (608) 267-5231

E-mail: edblot@mail01.dnr.state.wi.us

#### EPA Regional Contact:

Thelma Codina

(312) 886-6219

Fax: (312) 353-4788

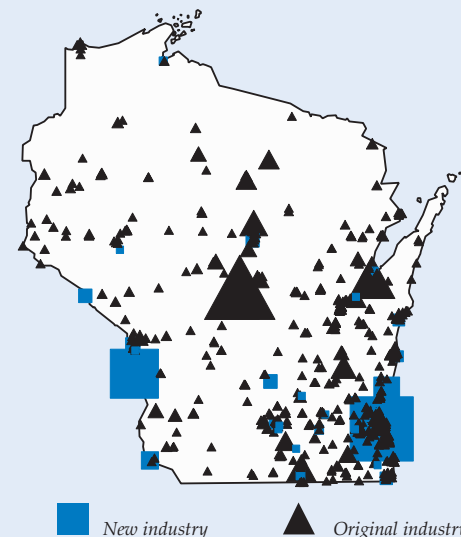
E-mail: codina.thelma@epa.gov

#### To obtain TRI data use

assistance, call TRI User  
Support Service (TRI-US):

(202) 260-1531

Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Wisconsin. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	5,250,446
Square Miles	54,314
Total Facilities	865
Total Forms	2,676
Form As	384

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	22	30	29
Pounds	40,990,645	17,391,132	58,381,777
<b>National Rank for Total On-site Releases**</b>			
Rank	23	32	30
Pounds	30,293,453	12,781,590	43,075,043
<b>National Rank for Total Releases within State***</b>			
Rank	22	30	29
Pounds	40,960,837	16,594,953	57,555,790
<b>National Rank for Production-related Waste Managed</b>			
Rank	25	29	26
Pounds	312,731,272	46,116,254	358,847,526

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## WISCONSIN

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
67-56-1	Methanol	5,668,888	208,959	0	45,170	4,786	5,927,803	0	3,387	1,399
--	Nitrate compounds	606	3,062,193	0	303,908	547,547	3,914,254	5,400	547,468	79
108-88-3	Toluene	2,605,951	2	0	0	4,203	2,610,156	5,988	3,859	344
--	Zinc compounds	83,818	122	0	46,008	2,258,228	2,388,176	866,143	664,109	1,594,119
--	Manganese compounds	34,131	40,493	0	353,578	1,845,808	2,274,010	192,176	1,310,017	536,791
7664-93-9	Sulfuric acid	1,906,720	113	0	160,272	8,700	2,075,805	0	0	8,700
--	Glycol ethers	1,961,727	1,487	0	4	23,861	1,987,079	3,435	18,725	5,136
1330-20-7	Xylene (mixed isomers)	1,929,376	250	0	0	2,106	1,931,732	832	358	1,748
7647-01-0	Hydrochloric acid	1,869,549	0	0	0	0	1,869,549	41,000	0	0
7440-50-8	Copper	37,619	881	0	6,700	1,602,286	1,647,486	130,214	294,271	1,308,015

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	8,765,635	0	0	0	0	8,765,635	0	0	0
--	Barium compounds	34,149	2,796	0	760,356	2,757,450	3,554,751	5	2,037,520	719,930
--	Zinc compounds	45,422	2,033	0	533,285	1,281,153	1,861,893	1	1,243,454	37,699
7664-93-9	Sulfuric acid	1,255,560	0	0	0	17,800	1,273,360	0	17,800	0
7664-39-3	Hydrogen fluoride	1,083,402	0	0	29	0	1,083,431	0	0	0
--	Manganese compounds	5,296	765	0	49,534	232,846	288,441	0	211,146	21,700
--	Copper compounds	2,982	10,462	0	24,378	179,571	217,393	1	160,571	19,000
7664-41-7	Ammonia	123,171	29	0	0	0	123,200	0	0	0
--	Chromium compounds	637	93	0	6,036	70,375	77,141	347	66,375	4,000
--	Cobalt compounds	943	0	0	1,012	43,800	45,755	0	43,800	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

# WISCONSIN

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Consolidated Papers Inc. - Kraft Div., Wisconsin Rapids, Wood	3,116,445	1,500	0	0	0	194,000	3,311,945	157,400	0
Georgia-Pacific Corp. Nekoosa Mill, Nekoosa, Wood	1,548,720	446,748	0	0	0	195,546	2,191,014	15,000	0
Fort James Operating Co., Green Bay, Brown	1,256,800	741,240	0	0	0	0	1,998,040	15,150	0
GMTG - Janesville Assembly, Janesville, Rock	1,122,487	0	0	0	0	0	1,122,487	2,120	2,696
Wausau-Mosinee Paper Corp. Brokaw Mill, Brokaw, Marathon	459,017	567,950	0	0	0	0	1,026,967	1,147	0
Quad/Graphics, Inc., Lomira, Dodge	886,915	0	0	0	0	0	886,915	1,052	0
Uniroyal Engineered Prods., Stoughton, Dane	642,824	0	0	0	0	0	642,824	13,793	0
Packaging Corp. of America, Tomahawk, Lincoln	584,764	12,972	0	0	0	40,546	638,282	0	0
Rhineland Paper Co., Rhineland, Oneida	444,565	191,925	0	0	0	161	636,651	0	0
Georgia-Pacific Corp. Port Edwards Mill, Port Edwards, Wood	356,350	236,902	0	0	0	17,500	610,752	11,000	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Oak Creek Power Plant, Oak Creek, Milwaukee	3,475,677	5,980	0	0	0	316,840	3,798,497	313,900	566,000
Dairyland Power Cooperative - Genoa Site, Genoa, Vernon	2,781,470	20	0	0	0	138	2,781,628	14,600	0
Port Washington Power Plant, Port Washington, Ozaukee	1,269,054	160	0	0	0	0	1,269,214	7,600	4,700
Valley Power Plant, Milwaukee, Milwaukee	808,045	1,125	0	0	0	0	809,170	14,010	4,670
Nelson Dewey Generating Station, Cassville, Grant	160,024	500	0	0	0	520,958	681,482	0	0
Northern States Power Co. - Wisconsin, La Crosse, La Crosse	502,534	250	0	0	0	0	502,784	99,542	0
Columbia Energy Center, Portage, Columbia	210,096	28	0	0	0	227,944	438,068	0	0
Dairyland Power Cooperative - Alma Site, Alma, Buffalo	412,497	862	0	0	0	13,655	427,014	487,000	0
Weston Power Plant, Rothschild, Marathon	187,445	6	0	0	0	233,200	420,651	0	0
Pleasant Prairie Power Plant, Kenosha, Kenosha	358,806	6,431	0	0	0	0	365,237	909,000	175,100

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## WISCONSIN

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Consolidated Papers Inc. - Kraft Div., Wisconsin Rapids, Wood	0	0	2,569,750	0	500,000	6,862,840	3,474,710	13,407,300	0
Georgia-Pacific Corp. Nekoosa Mill, Nekoosa, Wood	0	0	2,070,300	0	3,235,180	0	2,206,383	7,511,863	0
Fort James Operating Co., Green Bay, Brown	0	68,260	0	0	365,940	0	2,012,770	2,446,970	0
Charter Steel Div. of Charter Mfg., Saukville, Ozaukee	0	1,100,000	0	0	220,000	674	1,527,890	2,848,564	0
GMTG - Janesville Assembly, Janesville, Rock	0	694,810	0	0	394,551	102,200	1,105,670	2,297,231	1
Wausau-Mosinee Paper Corp. Brokaw Mill, Brokaw, Marathon	0	0	0	0	746,450	0	1,028,107	1,774,557	0
Waupaca Fndy. Inc. Plant 2/3, Waupaca, Waupaca	0	1,080,070	0	0	122,500	9,680	1,020,875	2,233,125	0
Quad/Graphics, Inc., Lomira, Dodge	169,460	0	0	74,350	62,360,000	1,118	887,100	63,492,028	1
Uniroyal Engineered Prods., Stoughton, Dane	253,000	0	0	6,020	0	0	648,740	907,760	0
Packaging Corp. of America, Tomahawk, Lincoln	0	0	0	0	335,551	0	638,283	973,834	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- production- related Waste Managed Pounds
Oak Creek Power Plant, Oak Creek, Milwaukee	0	0	0	0	0	0	4,678,397	4,678,397	0
Dairyland Power Cooperative - Genoa Site, Genoa, Vernon	0	0	0	0	0	0	2,794,100	2,794,100	0
Pleasant Prairie Power Plant, Kenosha, Kenosha	0	0	0	0	0	0	1,449,337	1,449,337	0
Edgewater Generating Station, Sheboygan, Sheboygan	0	0	0	0	19,000	0	1,328,830	1,347,830	0
Port Washington Power Plant, Port Washington, Ozaukee	0	0	0	0	0	0	1,281,514	1,281,514	0
Dairyland Power Cooperative - Alma Site, Alma, Buffalo	0	0	0	0	0	0	910,000	910,000	0
Valley Power Plant, Milwaukee, Milwaukee	0	0	0	0	0	0	827,850	827,850	0
Nelson Dewey Generating Station, Cassville, Grant	0	0	0	0	18,532	0	680,757	699,289	0
Northern States Power Co. - Wisconsin, La Crosse, La Crosse	0	0	0	0	0	0	601,202	601,202	0
Columbia Energy Center, Portage, Columbia	0	0	0	0	22,340	0	438,068	460,408	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.



# 1999 Toxics Release Inventory

## WYOMING

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
<b>On-site Releases</b>	9,680,574	9,105,390	18,785,964
Air Emissions	1,579,717	815,110	2,394,827
Surface Water Discharges	6,099	12,348	18,447
Underground Injection Class I Wells	8,081,700	0	8,081,700
Underground Injection Class II-V Wells	505	0	505
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	12,553	8,277,932	8,290,485
<b>Off-site Releases (Transfers Off-site to Disposal)*</b>	8,781	635,033	643,814
<b>Total On- and Off-site Releases</b>	9,689,355	9,740,423	19,429,778
<b>Recycled On-site</b>	1,810,802	0	1,810,802
<b>Recycled Off-site</b>	91,100	0	91,100
<b>Energy Recovery On-site</b>	159,140	0	159,140
<b>Energy Recovery Off-site</b>	5,100	0	5,100
<b>Treated On-site</b>	3,412,392	1,339,914	4,752,306
<b>Treated Off-site**</b>	5,083	2	5,085
<b>Quantity Released On- and Off-site***</b>	10,515,392	9,609,188	20,124,580
<b>Total Production-related Waste Managed</b>	15,999,009	10,949,104	26,948,113
<b>Total Non-production-related Waste Managed</b>	2	58	60

### Transfers Off-site for Further Waste Management/Disposal

Recycling	92,100	0	92,100
Energy Recovery	3,606	0	3,606
Treatment	547	0	547
Publicly Owned Treatment Works (POTWs)	275	30	305
Metals and Metal Compounds*	20	0	20
Non-metal TRI Chemicals**	255	30	285
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	759,549	635,033	1,394,582
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	856,077	635,063	1,491,140

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

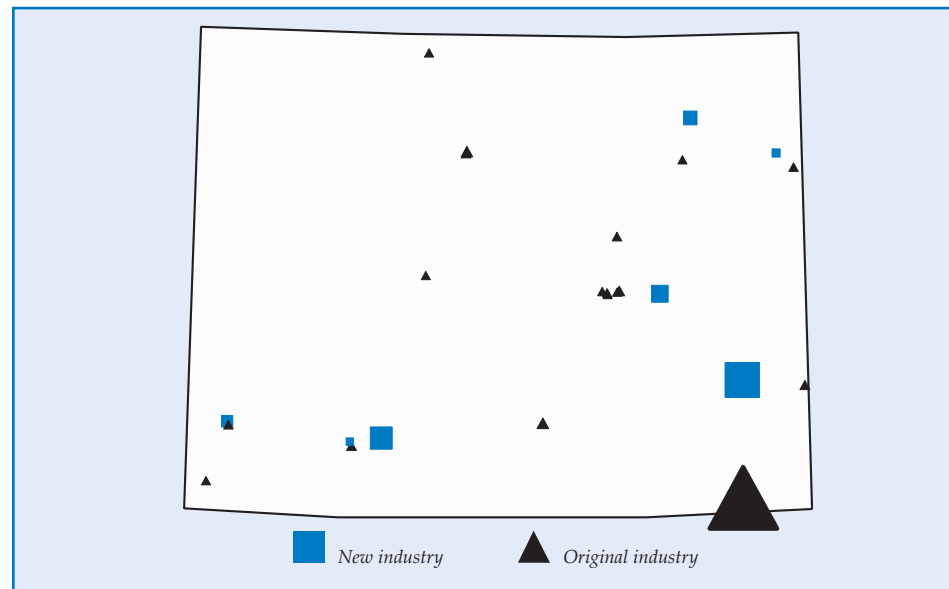
#### State Contact:

Bobbi Tenborg  
(307) 777-4910  
Fax: (307) 635-6017  
E-mail: btenbo@state.wy.us

#### EPA Regional Contact:

Joyel Dhieux  
(303) 312-6447  
Fax: (303) 312-6044  
E-mail: dhieux.joyel@epa.gov

To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Wyoming. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	479,602
Square Miles	97,105
Total Facilities	39
Total Forms	226
Form As	24

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	37	37	41
Pounds	9,689,355	9,740,423	19,429,778
<b>National Rank for Total On-site Releases**</b>			
Rank	37	37	40
Pounds	9,680,574	9,105,390	18,785,964
<b>National Rank for Total Releases within State***</b>			
Rank	37	37	41
Pounds	9,687,149	9,719,478	19,406,627
<b>National Rank for Production-related Waste Managed</b>			
Rank	46	41	48
Pounds	15,999,009	10,949,104	26,948,113

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1999 Toxics Release Inventory

## WYOMING

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Nitrate compounds	0	322	7,700,000	0	0	7,700,322	0	0	0
7664-41-7	Ammonia	589,785	4,707	344,000	8,111	0	946,603	0	0	0
--	Zinc compounds	250	0	0	0	497,000	497,250	0	0	497,000
--	Lead compounds	250	0	0	0	252,000	252,250	0	0	252,000
110-54-3	n-Hexane	159,450	10	0	500	8	159,968	0	5	3
71-36-3	n-Butyl alcohol	133,000	0	0	0	0	133,000	0	0	0
--	Glycol ethers	123,700	0	0	0	0	123,700	0	0	0
108-88-3	Toluene	111,202	260	0	756	343	112,561	0	5	338
1330-20-7	Xylene (mixed isomers)	93,950	260	250	756	47	95,263	0	0	47
115-07-1	Propylene	49,860	0	0	0	0	49,860	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Barium compounds	29,653	7,221	0	5,526,296	485,885	6,049,055	970	485,885	0
--	Manganese compounds	43,042	4,359	0	1,242,331	39,518	1,329,250	0	39,518	0
--	Copper compounds	2,173	72	0	380,000	27,257	409,502	0	27,257	0
7647-01-0	Hydrochloric acid	287,873	0	0	0	0	287,873	0	0	0
7664-93-9	Sulfuric acid	256,000	0	0	0	0	256,000	0	0	0
--	Zinc compounds	6,117	281	0	176,300	31,373	214,071	0	31,373	0
7664-39-3	Hydrogen fluoride	123,364	5	0	85,591	4,673	213,633	0	4,673	0
--	Chromium compounds	4,036	178	0	177,058	23,321	204,593	1	23,321	0
--	Lead compounds	33,081	59	0	155,810	0	188,950	20	0	0
--	Nickel compounds	2,805	0	0	125,152	0	127,957	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1999 Toxics Release Inventory

## WYOMING

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Coastal Chem Inc., Cheyenne, Laramie	383,456	0	8,081,700	0	0	400	8,465,556	0	0
Sinclair Oil Corp., Sinclair, Carbon	291,842	0	0	0	0	0	291,842	72	0
Crown Cork & Seal Co. Inc., Worland, Washakie	256,700	0	0	0	0	0	256,700	255	0
Sinclair Oil Corp. - Casper Refy., Casper, Natrona	177,106	0	0	0	0	575	177,681	6,203	1,391
Holly Sugar Corp., Torrington, Goshen	90,300	0	0	0	0	3,800	94,100	0	0
Holly Sugar Corp., Worland, Washakie	87,200	0	0	0	0	3,600	90,800	0	0
Frontier Refining Inc., Cheyenne, Laramie	80,139	1,053	0	0	0	0	81,192	0	0
SF Phosphates Ltd. Co., Rock Springs, Sweetwater	80,010	0	0	0	0	0	80,010	0	0
U.S. DOE Naval Petroleum Reserve No. 3, Casper, Natrona	45,485	1,000	0	505	0	2,500	49,490	0	0
FMC Corp. Kemmerer Plant, Kemmerer, Lincoln	42,197	0	0	0	0	0	42,197	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Laramie River Station, Wheatland, Platte	160,918	0	0	0	0	3,795,304	3,956,222	0	0
Jim Bridger Power Plant/Bridger Coal Co. Point of Rocks, Sweetwater	220,705	0	0	0	0	1,912,691	2,133,396	0	0
Pacificorp - Dave Johnston Plant, Glenrock, Converse	226,390	10,634	0	0	0	1,131,000	1,368,024	0	0
Neil Simpson Complex, Gillette, Campbell	11,262	42	0	0	0	895,691	906,995	0	0
Pacificorp, Naughton Power Plant, Kemmerer, Lincoln	148,720	1,250	0	0	0	444,000	593,970	0	0
BHPL-Osage Power Plant, Osage, Weston	19,627	376	0	0	0	99,246	119,249	11,963	0
Wyodak Plant, Gillette, Campbell	25,645	46	0	0	0	0	25,691	601,134	0
Fleischli Oil Rock Springs Terminal, Rock Springs, Sweetwater	1,843	0	0	0	0	0	1,843	0	21,936

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.





# 1999 Toxics Release Inventory

## WYOMING

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Coastal Chem Inc., Cheyenne, Laramie	0	6,100	0	0	0	0	8,465,316	8,471,416	0
Tetra Micronutrients Inc., Cheyenne, Laramie	0	0	0	0	0	4,670	774,000	778,670	0
Sinclair Oil Corp., Sinclair, Carbon	174,525	0	135,300	0	861,580	0	291,915	1,463,320	0
Crown Cork & Seal Co. Inc., Worland, Washakie	0	0	0	0	21,000	7	253,150	274,157	0
Sinclair Oil Corp. - Casper Refy., Casper, Natrona	1,366,117	0	0	0	2,444	0	183,498	1,552,059	0
Holly Sugar Corp., Torrington, Goshen	0	0	0	0	0	0	94,100	94,100	0
Holly Sugar Corp., Worland, Washakie	0	0	0	0	0	0	90,800	90,800	0
Frontier Refining Inc., Cheyenne, Laramie	3,555	0	0	2,994	523,914	0	81,192	611,655	0
SF Phosphates Ltd. Co., Rock Springs, Sweetwater	0	0	0	0	0	0	80,000	80,000	0
Wyoming Refining Co., Newcastle, Weston	2,290	0	0	0	174,556	1	78,848	255,695	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Laramie River Station, Wheatland, Platte	0	0	0	0	0	0	3,842,900	3,842,900	0
Jim Bridger Power Plant/Bridger Coal Co., Point of Rocks, Sweetwater	0	0	0	0	630,000	0	2,130,000	2,760,000	0
Pacificorp - Dave Johnston Plant, Glenrock, Converse	0	0	0	0	131,000	0	1,365,000	1,496,000	0
Neil Simpson Complex, Gillette, Campbell	0	0	0	0	62,702	0	906,995	969,697	0
Wyodak Plant, Gillette, Campbell	0	0	0	0	90,000	0	627,500	717,500	0
Pacificorp, Naughton Power Plant, Kemmerer, Lincoln	0	0	0	0	405,000	0	591,000	996,000	52
BHPL-Osage Power Plant, Osage, Weston	0	0	0	0	21,210	0	119,238	140,448	0
Fleischli Oil Rock Springs Terminal, Rock Springs, Sweetwater	0	0	0	0	2	2	26,555	26,559	6

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.